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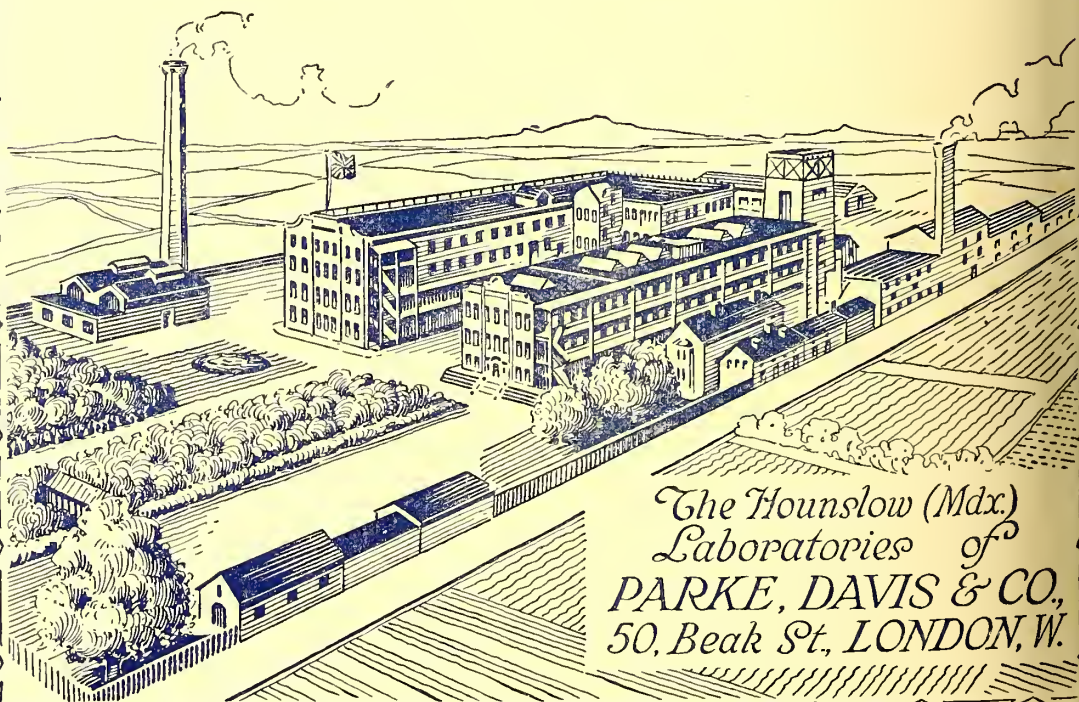
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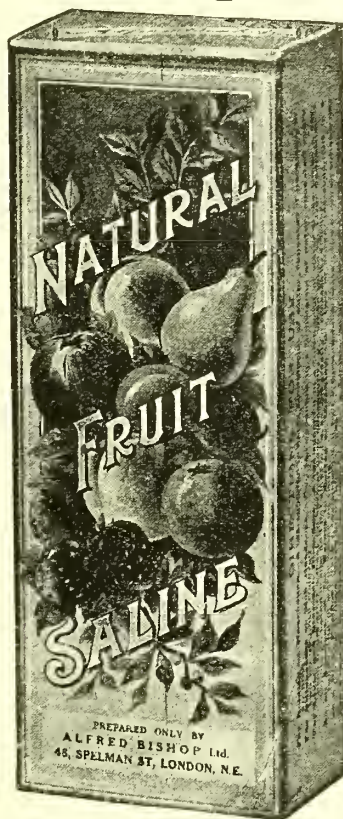
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PRUDENTIAL ASSURANCE COMPANY, Ltd.

Chief Office: HOLBORN BARS, LONDON.

FUNDS EXCEED £94,000,000.

Summary of the Report presented at the Sixty-seventh Annual Meeting, held on 2nd March, 1916.

ORDINARY BRANCH.—The number of policies issued during the year was 68,785, assuring the sum of £6,619,218, and producing a new annual premium income of £457,217. The premiums received during the year were £5,157,516, being an increase of £121,891 over the year 1914.

The claims of the year amounted to £4,330,768, of which £145,536 was in respect of War Claims. The number of deaths was 11,358. The number of endowment assurances matured was 25,559, the premium income of which was £137,797.

The number of policies in force at the end of the year was 935,514.

INDUSTRIAL BRANCH.—The premiums received during the year were £8,506,063, being an increase of £329,861.

The claims of the year amounted to £3,938,596, of which £425,499 was in respect of 25,379 War Claims. The bonus additions included in the claims amounted to £276,721. The total number of claims and surrenders, including 15,505 endowment assurances matured, was 429,510.

The number of free policies granted during the year to those policyholders of five years' standing and upwards who desired to discontinue their payments was 88,384, the number in force being 1,984,523. The number of free policies which became claims during the year was 51,417.

The total number of policies in force in this Branch at the end of the year was 20,859,887; their average duration exceeds thirteen years.

The War Claims paid during the year, in both Branches, number 26,825 and amount to £571,035. The total paid up to the present on this account since the outbreak of War exceeds £750,000 in respect of over 34,500 claims.

GENERAL BRANCH.—Under the Sickness Insurance Tables the premiums received during the year were £9,065, and £5,468 was paid in Sickness claims. The whole of the Fund of £16,955 is reserved for future liabilities.

The assets of the Company, in all branches, as shown in the balance sheet, are £94,794,798, being an increase of £3,592,454 over those of 1914.

The Directors, after careful consideration, feel justified in paying a bonus on all participating policies of the Ordinary Branch which become claims either by death or maturity during the financial year, but in view of the present unsettled conditions it is not proposed to make a general distribution of bonus, and the shareholders will not therefore receive any part of the profits of this Branch. The interests of participating policyholders are safeguarded by a Special Contingency Fund of £700,000.

The provisions relating to Industrial Assurance contained in the Courts (Emergency Powers) Act, 1914, have resulted in a severe strain upon the Company's resources, which has reduced the surplus shown on the operations of the year, and whilst these provisions remain in force the strain must continue. In these circumstances the Directors have not felt justified in drawing upon the £300,000 set aside last year to meet contingent liabilities created by the Act, but have met the loss out of revenue, and in addition have felt it necessary to increase the amount set aside by £50,000. The Courts (Emergency Powers) Act Reserve therefore stands, as at 31st December, 1915, at £350,000.

The profit sharing scheme in the Industrial Branch provides that after payment of a fixed dividend to the shareholders any surplus profit shall be divided into six parts: one part being retained by the shareholders, one distributed among the outdoor staff of the Company, and the remaining four parts being allotted by way of bonus to the policyholders of the Industrial Branch. The sum which has already been paid or allotted under this scheme by way of bonus to the Industrial Branch policyholders and outdoor staff amounts to £2,825,000.

The amount of surplus shown this year does not permit of any increase being made to this sum; there is, however, a substantial balance still remaining, from which bonus additions will be made to the sums assured on all policies in the Industrial Branch of over ten years' duration which become claims either by death or maturity of endowment

from the 3rd of March, 1916, to the 1st of March, 1917, both dates inclusive, as follows:—

PREMIUMS PAID FOR.	BONUS ADDITION TO SUMS ASSURED.
10 years and less than 35 years	£2 10s. per cent.
35 " " " " 40 "	£5 "
40 " " " " 45 "	£15 "
45 " " " " 50 "	£30 "
50 " " " " 55 "	£40 "
55 " " " " 60 "	£50 "
60 " and upwards.	£60 "

The strain imposed upon the Company by the operation of the Courts (Emergency Powers) Act, and the necessity of reserving funds to meet the liabilities which this Act unnecessarily and inequitably creates, are in a large measure responsible for the temporary suspension of the profit-sharing scheme; this year there will be no surplus profit sharing by the shareholders or by the outdoor staff, while the fixed dividend of the shareholders will be reduced by £100,000.

In addition to the reserves held against the liabilities shown by the valuation the total amount reserved for contingencies, including amounts carried forward, exceeds £4,100,000.

The Balance Sheet includes amounts totalling over £13,000,000 in War Loan and Treasury Bills. The increase in the holding of British Government Securities compared with last year is £11,849,133, against a decrease of £3,276,885 in the Balance Sheet item "Railway and other debentures, and debenture stocks and gold and sterling bonds—Home and Foreign." Apart from the purchase of 4½ per cent. War Loan, this is principally due to the sale to the Government in July last of the whole of the Company's holding of United States securities.

The following letter was received from the Chancellor of the Exchequer in connection with the transaction:—

[COPY.] TREASURY CHAMBERS,
WHITEHALL, S.W.,
4th August, 1915.

Dear Sir.—I have to thank the Prudential Assurance Company on behalf of His Majesty's Government for the patriotic spirit they have shown in placing the whole of their American securities at the disposal of the Treasury at a fair and reasonable price. The transaction has been of considerable assistance in facilitating Exchange operations, and the greatest credit is due to the Company for its prompt action.

Yours very truly,
G. E. MAY, Esq.,
Secretary,
Prudential Assurance Company, Ltd.
R. McKENNA.

The six Prudential Approved Societies formed under the National Insurance Act, 1911, continue to make satisfactory progress, and the valuable services rendered to the members by the Agency Staff are highly appreciated. The amount distributed in benefits to the members at their homes during the year amounted to £1,414,109, making a total exceeding £4,400,000 since the commencement of the Act.

It is with feelings of pride and satisfaction that the Directors are able to report that no fewer than 9,221 of their staff are either serving with the Colours or have attested or been rejected for service: 1,305 from the indoor staff and 7,916 from the outdoor staff.

Messrs. Deloitte, Plender, Griffiths & Co. have examined the securities, and their certificate is appended to the balance sheets.

THOS. C. DEWEY, Chairman.
W. J. LANCASTER, } Directors.
JAMES MOON, }
J. BURN, Actuary. A. C. THOMPSON,
G. E. MAY, Secretary. General Manager.

The full Report and Balance Sheet can be obtained upon application.

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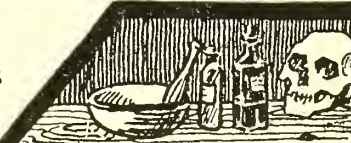
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The SALVARSAN & NEOSALVARSAN Effective Substitutes. GALYL

GALYL is Tetraoxydiphosphaminodiarsenobenzene and has been discovered by Dr. MOUNEYRAT.

It is found in the form of a clean yellow powder, liable to change when exposed to the air.

GALYL is as effective as SALVARSAN or NEOSALVARSAN on Spirochaetes and Trypanosomes and free from the neurotropic and congestive action of these preparations.

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- (1) **DILUTE.**—GALYL is supplied in neutral glass ampoules containing the necessary dose of Sodium Carbonate. Sterile distilled water only being used for the dissolution.
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HECTINE

HECTINE is Sodii Benzo-sulpho-p-amino-phenyl-arsonas.

HECTINE consists of colourless needles, very soluble in water, containing approximately 21 per cent. of arsenic.

The preparation is put up in sterile ampoules for INTRAMUSCULAR INJECTIONS:—

AMPOULES A containing 10 cg. in 1 c.c.

AMPOULES B „ 20 cg. in 1 c.c.

PILLS (in Phials of 24) 10 cg.

Ref., THE LANCET, 26/6/15—

“Severe cases of intractable syphilis treated satisfactorily with Hectine.”

HECTARGYRE

Mercurial salt of HECTINE, a combined arsenico-mercurial treatment of Syphilis, especially recommended after a course of Galyl.

The preparation is put up in sterile ampoules for INTRAMUSCULAR INJECTIONS.

AMPOULES A containing:

Hectine	...	10 cg.	in 1 cc.
Hg.	...	1 cg.	

AMPOULES B containing:

Hectine	...	20 cg.	in 1 cc.
Hg.	...	1½ cg.	

PILLS containing:—

Hectine	...	10 cg.
Protoiod. of Hg.	...	1 cg.
Opium Extract	...	1 cg.

IN PHIALS OF 24 PILLS.

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The most simple, the most certain, the most economical apparatus for the instantaneous preparation of an aseptic solution of 914, for its aseptic filtration and for its direct aseptic entry into the syringe.

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The specific for Pneumococcal Disease: Simple Pneumonia, Infective Pneumonia, Broncho-Pneumonia, Pulmonary Congestion.

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The most powerful of all Urinary Antiseptics. Uraseptine is a granulated product entirely soluble in water, its bases being Piperazine, Urotropine, Helmitol, Benzoates of Sodium and Lithium, and containing 60 centigrams (10 grs.) of active matter to each teaspoonful. Dose: 2 to 6 teaspoonfuls daily.

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(Late M. BRESILLON & CO.)

Telephone: 1311 HOLBORN.

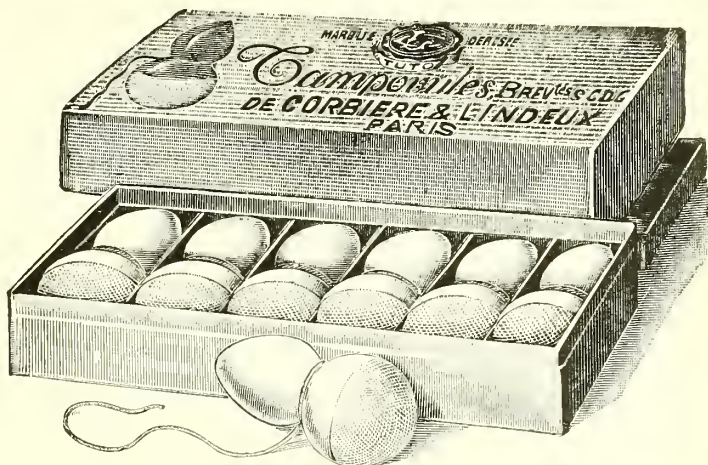
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**IODARGOL****Bougies.**

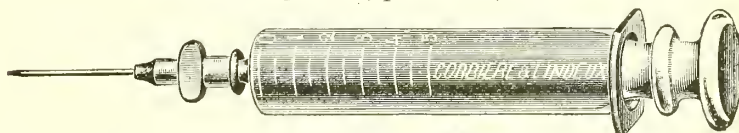
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BOUGIES.

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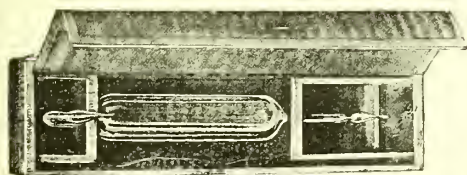
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ALL-GLASS DELTA URETHRAL SYRINGE.

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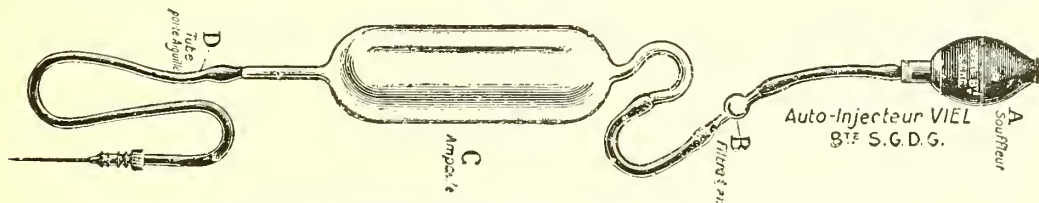
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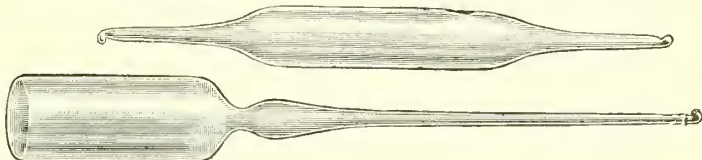


Physiological Serums in Ampoules of 250 and 500 c.c.

GLASS AMPOULES.

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All sizes and shapes promptly supplied.

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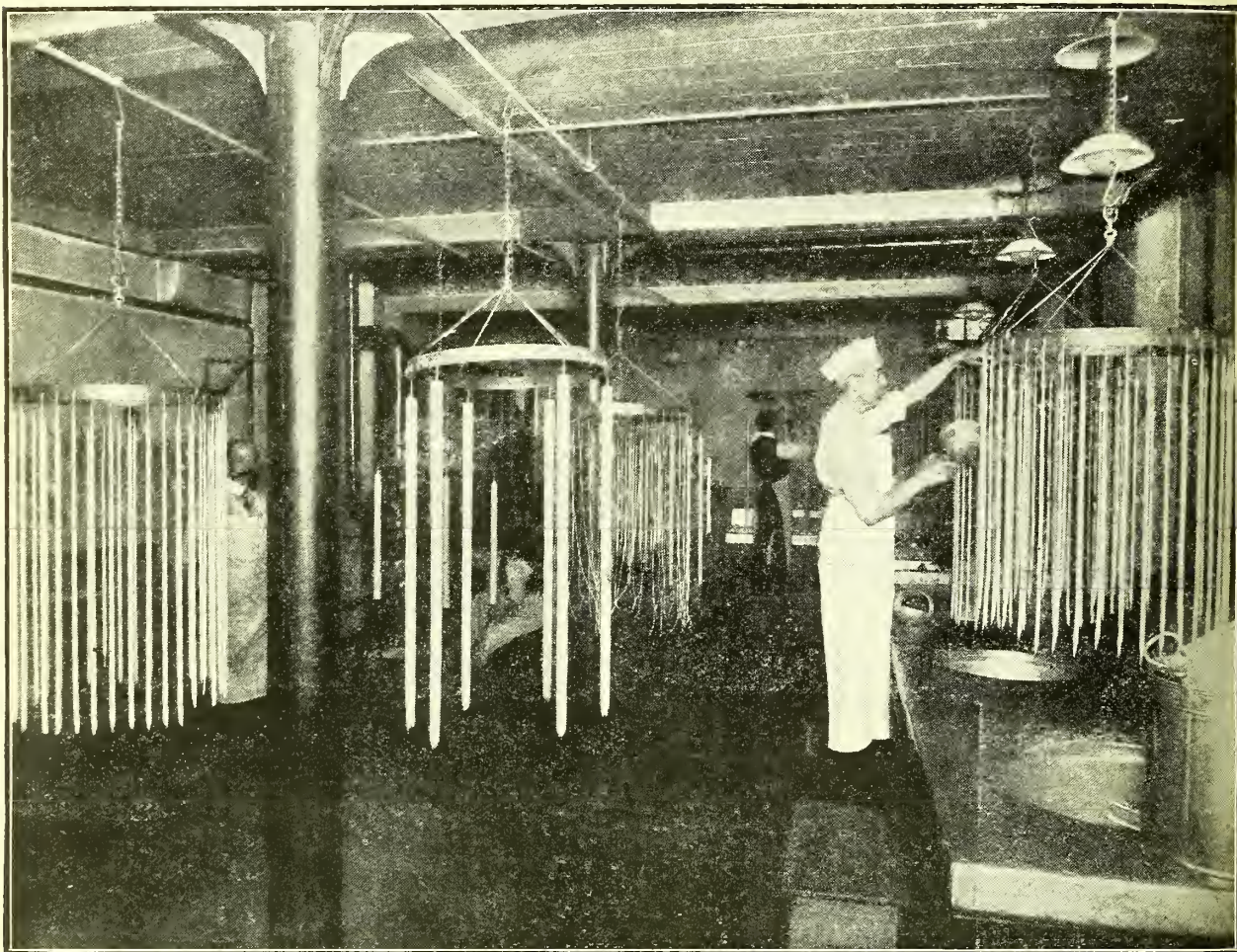
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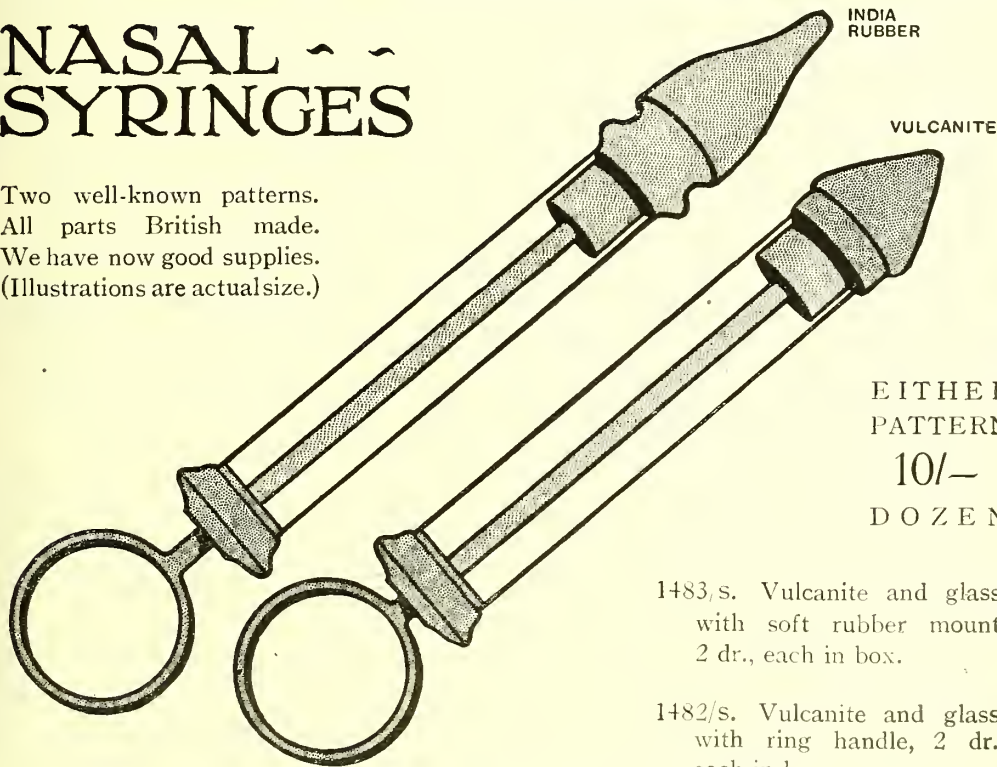
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1482/s.

1483/s. Vulcanite and glass,
with soft rubber mount,
2 dr., each in box.

1482/s. Vulcanite and glass,
with ring handle, 2 dr.,
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The Fun of the Fair

The complete armour of an ancient Japanese warrior looked down upon a strange and fascinating scene last week. Together with swords and other fighting implements of a forgotten era, it was temporarily removed from the Victoria and Albert Museum at Kensington to make room for an exhibition of modern British industries.

A series of halls and galleries were packed with the display of produce from Great Britain's manufacturing centres. Business men had here set out their efforts which are to pave the way to a British trade victory.

The exhibitors came from all parts of the country to seek new trading opportunities. Commerce sought custom with enthusiasm and confidence. Men were quietly placing orders and contracts for their immediate and future needs.

They were looking ahead.

It was good to walk through those avenues of stalls,—to note the keenness of the buyers, the interest shown in the wares; to feel that here was a bid for British supremacy over enemy competition; all the fun of the fair. Above all, the advent of the second British Industries Exhibition is a happy augury for the time when

Peace restores us to normal trading conditions.

And what, you say, has all this to do with Pharmacy? We reply that your business is an off-shoot of the complicated plant of industry. There is vigour in the roots; all is well with you. As the weapons of olden battles were ousted for the housing of the fruits of war-time initiative, so will the grim relics of the present conflict be in turn superseded by the march of commercial progress. We look upon the Fair as a tonic—to be taken for the duration of war.

Send your orders to us.

Capsule



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The Strongest and Brightest.

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(Liquid, Powder, and Tablets.)

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FOR IMMEDIATE DELIVERY.

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BOTTLES VACUUM FLASKS

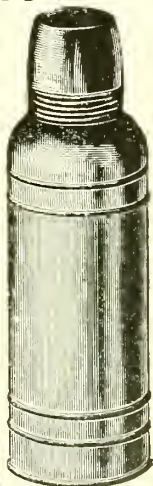
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**KEEP HOT THINGS HOT 30 HOURS.
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Per dozen 78/0



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Enamelled on
Metal in Colour,
Wine, or Khaki.
Retail 4/6 each.
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Pint size
Best plain
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Retail 10/6 each.
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Retail 9/6 each.
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Retail 15/6 each.
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Refills		Spare Corks	
Pints ...	36/- per dozen	Pints ...	1/6 per dozen
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In Square, Upright Tins, containing 2 oz., 4 oz., 8 oz., and 16 oz.

Wholesale: 9/-, 14/6, 24/-, 42/-
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PHOSPHATES

supplied under Buyer's
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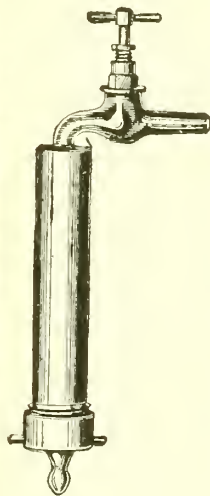
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Wherever the **PASTEUR
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— Manufacturing Chemists —

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		Protected Retail.	Dozen Net.
LOSALL'S SALT	- -	6d. tins	4 -
" "	- -	1/- "	8/-
" "	- -	1/6 bottles	10/6
" BALLROOM FLOOR POLISH	1/- tins		7/6
" MILK FOOD (1/- tins)	10d. each		7/-
LOSALL'S SOAP	- -	4d. tabs.	8/6
		(3 tabs. in box)	

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

REVISED PRICES.

LARGE SALES—GOOD PROFITS, P.A.T.A.

ASSURED TO CHEMISTS

WHO PUSH

COW & GATE

MILK FOODS

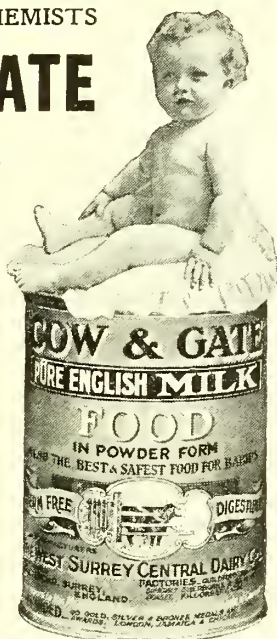
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Saves the Lives of
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A BOON TO MOTHERS
AND NURSES.

"BABIES LOVE IT."

HIGHLY APPROVED BY THE
MEDICAL PROFESSION.



Owing to the continual rise in cost of milk, tins, packing materials and all manufacturing costs, we have been compelled to advance prices of our well-known Foods, as revised price list attached.

These Prices show the Retailer an Average Profit of over 27% on a monthly a/c, with a carriage paid minimum of 30/-.

The size and contents of our tins have not been reduced. It remains the best value to the public of any complete Milk Food on the Market.

WHOLESALE PRICE LIST OF TINS. All Previous Lists Cancelled.

FULL CREAM FOOD. !(Pink Label.)	SIZE	MINIMUM RETAIL PRICE	MINIMUM WHOLESALE PRICE	
For general use and for Children and Infants over 6 months old.	1/-	1/-	9/- doz.	TERMS:—2½ % Dis- count will be allowed on a/c's paid by the 15th of each month following date of Invoice. After which date <u>no discount</u> <u>will be allowed</u> <u>under any circum-</u> <u>stances whatever.</u>
	1/11	1/11	17/6 doz.	
	HOUSEHOLD TIN.			
5/7	5/7	4/4 each		
HALF CREAM FOOD. (Blue Label.)	10½d.	10½d.	7/10 doz.	CARRIAGE PAID on orders of 30/- by goods train England and Wales, and on orders of 60/- value Scotland and Ireland. When required by passenger train the difference between goods and passenger rate will be charged.
	1/8	1/8	15/- doz.	
	HOUSEHOLD TIN.			
4/9	4/9	3/7 each		
Best for Infants under 6 months. Its use saves delicate Babies.	1/-	1/-	9/- doz.	
	HOUSEHOLD TIN.			
	4/6	4/6	3/4 each	
SEPARATED. (White Label.)				
Contains about 1 per cent. of its Butter-fat, but is specially rich in proteid, containing about 40 per cent., that is, 1lb. of this Powder contains as much body building material as 2lb. 10oz. of Fresh Beef. The special method of preparation renders this milk per- fectly easy of digestion to the most delicate.				

STOCKED BY ALL THE LEADING WHOLESALE HOUSES.

SOLE MANUFACTURERS:

THE WEST SURREY CENTRAL DAIRY COY., LTD., GUILDFORD.

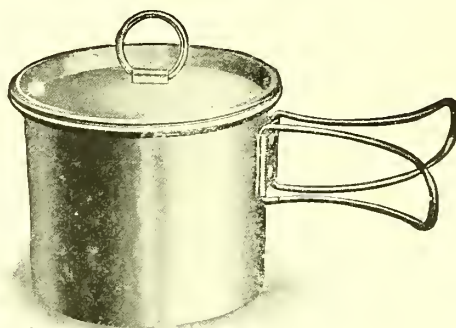
TOMMY'S COOKER

The Original
Patented Model

THE IDEAL POCKET STOVE FOR THE TRENCHES, FOR
DOMESTIC PURPOSES, TRAVELLING AND CAMPING.



Cooker, 1/-



Saucepan, 2/6



Cooker and
Saucepan,
3/6



Refills, 2/-

Tommy's Cooker, Saucepan and Refill complete,
packed in one box, 5/6

IN GREAT
DEMAND

3,000,000
SUPPLIED TO
THE BRITISH,
FRENCH AND
BELGIAN
ARMIES AND
RED CROSS
SOCIETIES.

SELLING
POINTS—

1. Can be carried in pocket.
2. Size $3\frac{1}{2} \times 2$ inches.
3. Wind does not blow it out.
4. Gives immediate and intense heat.
5. Carries heavy pots or pans.
6. Burns $2\frac{1}{2}$ hours, and with Refill 12 hours.
7. Patent Drinking Cup Gratis.

EASY TO SELL
AT THE FIXED
CHARGES
WHICH ALLOW
A GOOD
PROFIT.

Patent Drinking Cup
Gratis.

WRITE FOR TRADE TERMS TO ORIGINAL MAKERS,

TOMMY'S COOKER COMPANY, Ltd.

32 BREWERY ROAD, CALEDONIAN ROAD, LONDON, N.



IT PAYS HANDSOMELY TO PUSH AND DISPLAY “OVALTINE” TONIC FOOD BEVERAGE.

We are now offering 6/- worth of “Ovaltine” at trade prices, carriage paid, for a definite 14 days’ display in a prominent place in your window.

This offer is made to purchasers of minimum orders of £3 (invoice value). Carriage paid to any part of the United Kingdom.

£5 lots are subject to 5% discount for prompt cash, otherwise terms are strictly net monthly account.

TRADE PRICES	{	1/- P.A.T.A.	-	9/6 per Dozen.
		1/9 ”	-	16/- ” ”
		3/- ”	-	28/- ” ”

ON BEST TERMS “OVALTINE” BEARS A PROFIT OF

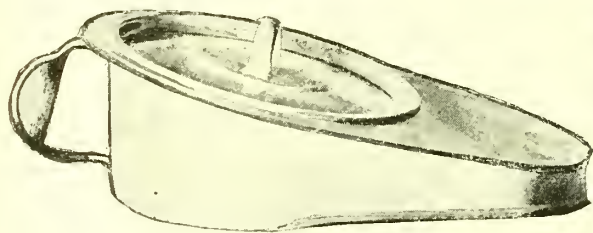
45% ON OUTLAY.

INQUIRIES INVITED FOR EXPORT TERMS.

A. WANDER, LTD., 45 Cowcross St., E.C.
WORKS : KING’S LANGLEY, HERTFORDSHIRE.

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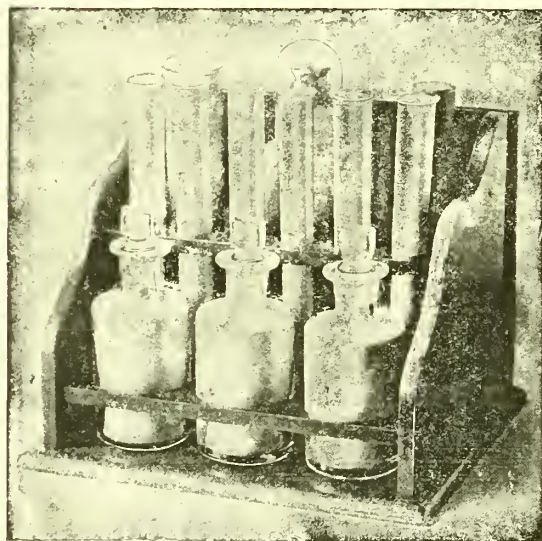
A LARGE VARIETY OF CURRENT GOODS



Enamelled Iron Bed Pans
IN STOCK.

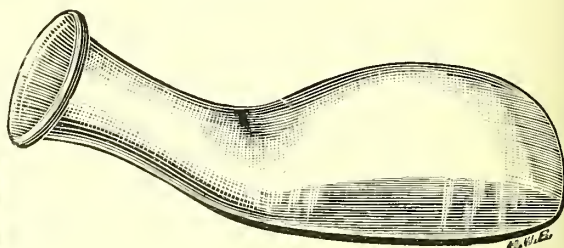
No. 10611.
White Enamelled Slipper Bed
Pans with cover.
Size 14½ inches.

**WHOLESALE AND
EXPORT ONLY.**



No 10613.

Fitted Urine Test Stand complete, ready
for delivery.



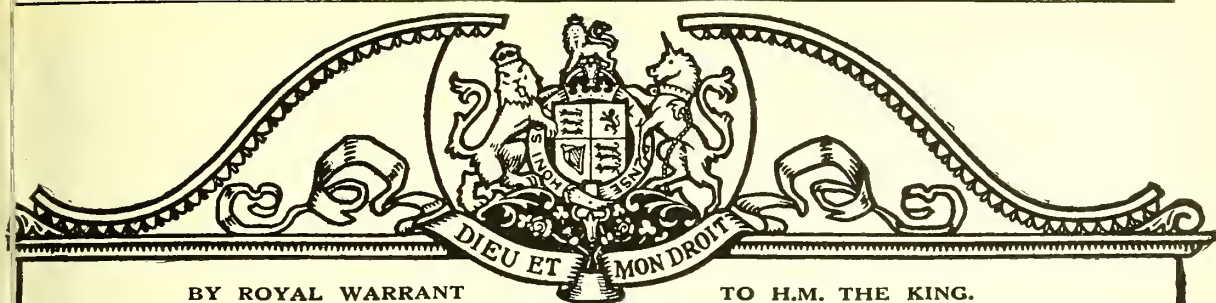
No. 10612.

Male Urinals. Pale Green, Flint and
Deep Blue. Straight Neck and
Trumpet Neck.

IN STOCK.

GRADUATED GLASS
MEASURES,
VACUUM FLASKS,
PACKED GOODS, MENTHOL,
AND
ALL SUNDRIES.

HENRY W. BUSH & CO., Ltd.
REMBRANDT WORKS, COMMERCIAL ST., LONDON, E.



BY ROYAL WARRANT

TO H.M. THE KING.

CROSSE & BLACKWELL'S

**"UNEXCELLED"
MEDICATED
PREPARATIONS**

Lozenges

Brompton
Black Currant
Linseed L. & C.
Pine Tree
Poor Ben's Cough
Hospital Cough
C. X S. Peppermint
Acidulated Tablets



Cachous

Carnation
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Lavender
Lily-of-the-Valley
Heliotrope
Jockey Club
Parma Violets
Rose, etc.

SAMPLES & PRICES OF THE ABOVE ON APPLICATION TO—
SOHO SQUARE
LONDON, W.





Packed Drugs
Toilet Preparations
Superfatted Toilet Soaps



■ LABELS ■
CAN BE RESERVED
for a chemist in his locality,
SPECIAL QUOTATIONS
■ to ■
buyers in quantity.



Labels printed with own name and address free, subject to orders being received for any preparation to the value of 12 - and upwards.

A revised edition of our Packed Drug List can be forwarded on request, also specimens of available labels and cartons.



Allen & Hanburys Ltd,
London.

SAMPLES of PREPARATIONS and specimens of available LABELS and CARTONS forwarded on request.

Packed Drugs.

Blaud's Pills.

White glass direct squares, cartoned, gelatin coated.
144's, 79 doz.

Carlsbad Salts.

Plug stoppered Cheltenham's, squat, cartoned, 9/6 doz.

Effervescent Citrate of Magnesia.

(No. 1 Quality).

White glass kalis, corked, capsuled.

2 oz. in 4 oz. 6/-, 4 oz. in 8 oz. 8/9,

8 oz. in 16 oz. 16/6 doz.

Effervescent Citrate of Magnesia.

(No. 1 Quality).

Blue flats, corked, capsuled, 4 oz. in 8 oz. 8/9.

6 oz. in 12 oz. 12/9, 8 oz. in 16 oz. 16/3 doz.

Effervescent Citrate of Magnesia.

(No. 1 Quality).

Cheltenham's boxwood top shives, 3 oz. in 6 oz. 6/9.

4 oz. in 8 oz. 8/3, 8 oz. in 16 oz. 14/6 doz.

Health Saline.

Round cornered tins, lever lidded, 5 oz. 45/-,
9 oz. 94/- gross net.

Lemonade Crystals.

Direct squares, corked, capsuled, 1½ oz. f.c. 4/6
4½ oz. 10/9 doz.

Liver Saline.

Round cornered tins, lever lidded, 5 oz. 45/-,
9 oz. 94/- gross net.

Effervescent Saline, Granular.

Wood's plug stoppered Cheltenham's, capsuled,
6 oz. 9/9, 8 oz. 11/9

Second quality Cheltenham's, capsuled, 6 oz. 8/3,
8 oz. 10/6 doz.

Seidlitz Powders.

B.P. loose, 8/-, extra strong, 10/-, double strength
12/8 gross.

Seidlitz Powders.

Boxes B.P. 7/9, extra strong 9/-, double strength
10/6 doz. boxes.

Seidlitz Powders.

Banded 8/9, extra strong 10/3, double strength
13/- gross.

Allen & Hanburys, Ltd., London.



FIG. 535.

FIG. 1538.

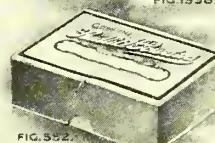


FIG. 552.



FIG. 476.

FIG. 535.

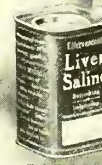


FIG. 716.



FIG. 1647.



FIG. 1044.

FIG. 106.

FIG. 501.

FIG. 240.

FIG. 543.

FIG. 1662.

FIG. 1297.

FIG. 437.



Owing to representations made to us by Retail Members of the P.A.T.A. as to the trouble caused them through answering the very numerous inquiries for small quantities of our preparations as a result of our EXTENSIVE PUBLIC ADVERTISING CAMPAIGN, we are supplying the Retail Trade with an

ATTRACTIVE SHOWCARD

Illustrated below, SHOWING RETAIL PRICES AT A GLANCE.

PROMINENTLY
DISPLAYED
ON THE
COUNTER

SAVES
ANSWERING
INQUIRIES
FOR SMALL
QUANTITIES.



PROMINENTLY
DISPLAYED
IN THE
WINDOW

WILL
GREATLY
INCREASE
SALES.

Attractive little BOOKLET ON "BEAUTY CULTURE" supplied free for distribution.

TOILET SPECIALTIES.

		Price per doz. to Retailer.	Selling Price P.A.T.A.			Price per doz. to Retailer.	Selling Price P.A.T.A.
PILETA SOAP	... a complexion soap	10 -	1 -	JETTALINE	... for clearing the skin	31 6	3 6
PROLACTUM	... for the lips	10 -	1 -	PH-MINOL	... a depilatory	36 -	4 -
PARSIDIUM JELLY	... for wrinkles	10 -	1 -	MENNALINE	... for the eyelashes	36 -	4 -
ALLACITE OF ORANGE BLOSSOM	... a dressing cream	22 6	2 6	MERCOLIZED WAX	... a face cream	31 6	3 6
BORANIUM	... a hair tonic	22 6	2 6	STYMOL	... for oily complexions (and blackheads)	36 -	4 -
CLEMINITE	... for a face lotion	22 6	2 6	BARSYDE	... dandruff eradicator	22 6	2 6
GOLLIANDUM	... for a face tint	22 6	2 6	TAMMALITE	... for grey & faded hair	22 6	2 6
ONALITE	... a foot powder	22 6	2 6	LIQUID PERGOL	... to check excessive (perspiration locally)	31 6	3 6
PERGOL	... a deodorant	22 6	2 6	BICROLIUM	... for whitening the hands	22 6	2 6
STALLAX	... for a shampoo	22 6	2 6				

STOCKED BY ALL WHOLESALE HOUSES.

Write at once for supplies of SHOWCARDS and BOOKLETS to—

DEARBORN LTD., 32-34 THEOBALD'S RD., LONDON, W.C.

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA.
ALL WHOLESALE, and
DEARBORN LTD.,
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72% Profit
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WHOLESALE & MANUFACTURING CHEMISTS.

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Showcards,
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Brochures,
Medical Literature.

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AT HOME AND OVERSEAS.

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(St. Ann's Square),
Manchester.

It is always preferable to run "own name" lines where practicable rather than foster someone else's. Where this principle does not apply, the alternative is to run a brand of which you get a monopoly for your district.

High-class Soaps, like all toilet adjuncts, have a large scope and are distinctly profitable in the handling. Having no special interest in any particular make, many chemists allow business to pass the door. We are Soap Specialists, and our trade arrangements are based on a co-operative plan whereby we sell to one chemist in each district. Thus we make it worth your while to concentrate your energy. Our Medicated Soaps are well known and require no embellishment. Our Benzoinated Superfatted and richly perfumed Toilet Soaps are now offered to Chemists, and, being presented in the French style, they command a good price, whilst their purity and excellence assure repeats and recommendations.

On the following parcel we allow as Bonus in return for your Window or Counter space

2 dozen tabs. of our Celebrated Bathroom Soap Free

This Bathroom Soap is made from one of our very best bases, is splendidly moulded, weight about six ounces, and is finished in a first-class style. We introduced it originally for doctors' own use, for the purpose of demonstrating to medical men the excellence of Midgley's Superfatted Soap. It sells at 6d. per tablet.

SUGGESTED PARCEL.

6	BOXES OF 3 SUPERFATTED WHITE ROSE	...	6d. TAB.
6	" " " EMOLLIENT	...	8d. "
6	" " " EAU DE COLOGNE	...	8d. "
6	" " " ROSE LEAF	...	9d. "
6	" " " BASIC	...	6d. "
3	" " " ICHTHYOL	...	9d. "
3	" " " ICHTHYOL LANOLINE	...	9d. "
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2	" " " EUCALYPTOL	...	6d. "
3	" " " LYSOL	...	6d. "
2	" " " ALKALINE ICHTHYOL & SULPH.	1/-	"
2	" " " SULPH. & SALICYLIC	9d.	"

Assured Profit, 72%.

N.B.—Any Soap may be exchanged for others of the series if in a particular district the sale is slow.

COUPON

To MIDGLEY'S,
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Please send, carriage paid, Toilet and Medicated Soaps as suggested to value of £3 2 6 together with bonus of 2 dozen Bathroom Soap, Showcards, free Sample Tablets and Literature.

We undertake to make window and (or) counter display.

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Chemist.

TOWN

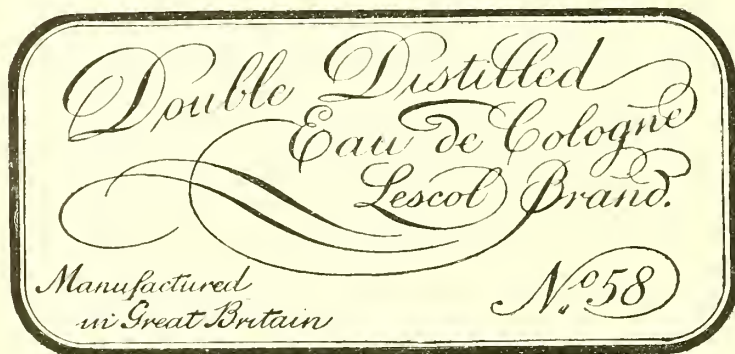
Send us list of your Medicos and we will mail Samples in your name.

EAU DE COLOGNE

Manufactured in Great Britain.

LESCOL BRAND No. 58.

FINEST VALUE IN COLOGNES ON THE MARKET.



Very acceptable
and necessary

**PRESENTS
FOR THE SICK**

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1-oz.	2-oz.	4-oz.	2-oz. wickered.	4-oz. wickered.	½-pt. wickered.	1-pt. wickered.	Quart wickered.
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Please write for our latest Price List—Illustrated by Colour Photography.

Finest Perfumery to suit all markets & requirements

LINES FROM A 1d. TO A GUINEA.

THE LESCOL PERFUMERY CO.,

Lomond Grove, CAMBERWELL, LONDON, S.E.

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THE PREMIER Lavender Water

(ESTABLISHED 1749)

POTTER & MOORE
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9d. size, 6/6 doz.

1/6 „ 13/- „

2/6 „ 22/- „

3/9 „ 33/- „

6/6 „ 54/- „

12/6 „ 96/- „

FLASKS,

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THE BRITISH DEVELOPER.
"MONOMET"
REPLACES GERMAN METOL.



Sold in 1 lb. Tins 80/-
 ,, ¼ lb. ,, 22/6
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 Trial ¼ oz. packets, 1/9
 Also in 3d. packets.

Discounts and Terms from—

WHITE BAND MFG. CO., LTD.,
PROGRESS WORKS, SOUTH CROYDON.

**Please your
customers**

and they will recommend to their friends thus greatly increasing your turnover. Anzora Cream should be one of your leading lines, for it is the only non-greasy preparation that will effectually master the hair. Do not stock substitutes for they are usually made from inferior materials and are apt to leave a flaky deposit.

ANZORA
 the Gold Medal Hair Cream

TRADE TERMS:

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 19/6 " " " 30/-

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DR. EVAN WILLIAMS'

Henna Shampoo
 ———— KEEPS THE HAIR YOUNG ————

FIRST on the market and still FIRST in favour. A class product highly valued by ladies everywhere. Sells freely at a substantial profit.

Order direct or of your Wholesaler. Specify "Dr. Evan Williams," and sell the genuine article.

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1/- PER TABLET

3% Biniodide

MERCURIAL SOAP

EACH TABLET BEARS A 3d. GOVERNMENT STAMP.

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of our employees are serving with His Majesty's Forces.

Most of them are now in the fighting line.

As the Railway Companies cannot handle traffic quickly enough, we shall be very glad indeed if you will kindly oblige us by placing your orders with our representatives for forward delivery.

Thanking you in anticipation.

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Perfumers,
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BE PATRIOTIC.

Don't buy Foreign Shaving Sticks & Increase Imports to the disadvantage of your Country.



“**ERASMIC**
Shaving Stick
10d in Nickel Case.”

Do yourself and your Country a good turn at the same time, by buying “ERASMIC” which is **BRITISH and BEST.**

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CARMINE, Finest French, all grades.

ESSENTIAL OILS, various.

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GENUINE AMERICAN PEPPERMINT OIL

"Columbia" Natural
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Finest qualities for Druggists,
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OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark. "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6, per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
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Extract from Trade Papers.

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Almond
Aniseed
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Cinnamon
Clove
Currant, Black
Coffee

EXTRACTS

Special Label.



"Trufruit" Extracts are only sold
under the above Registered Label.

"TRUFRUIT"

Lemon
Lime
Orange, Sweet
" Bitter
Raspberry
Strawberry
Tonquin
Vanilla

EXTRACTS

Samples and quotations for any of the above preparations will be forwarded upon receipt of application direct or through our local agents.

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" Spearmint	" " Artificial
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" " H. P.	" Copaiba
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PARAFFINUM LIQUIDUM

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of the finest quality, refined
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High-class Finish, at Lowest Prices.

SHOPS MODERNISED. ESTIMATES FREE.

Competent Fitters sent to all parts.

AYRTON-GRAHAM, Ltd., 106 DUKE STREET,
LIVERPOOL

CHEMISTS' SHOPFITTINGS.

WANTED.—Every Chemist requiring Shopfittings to send for my Estimate; you can't do better. I shall be pleased to send you rough sketches free on receipt of particulars. Over 30 years' experience.

Glass Showcases, Drugfittings, Dispensing Screens, Window Enclosures, Glass Shelves, Wall Cases, Perfume Cases, Plate Glass Front Counters, Drawers, &c., at lowest prices.

NOTE ADDRESS—

GEORGE COOK,

The Chemists' Working Shopfitter,
CATHERINE ST., CITY RD., LONDON, E.C.

TO WHOLESALE AND EXPORT TRADES.

SOLID AND LIQUID EXTRACTS.

INTERNATIONAL EXHIBITIONS, LONDON, 1862,
CHICAGO, 1893; PRIZE MEDALS AWARDED FOR
EXTRACTS, OILS, HERBS; ALSO AWARD AT
PARIS EXHIBITION, 1867.

Green Extracts, Standardised Extracts,
Physiologically Tested Tinctures,
Essential Oils of Lavender and Peppermint,
Expressed Juices, Scammony Resin,
Jalap Resin, Elaterium,
Mercurial Pill and Ointment,
Aloin, Euonymin, Iridin,
Leptandrin, Dried Medicinal Leaves,
Dandelion Root, Sal Volatile,
Quassia Extract.

MEDICINAL TINCTURES

IN BOND FOR EXPORT.

WILLIAM RANSOM & SON, Ltd.

(Etab. half a century), Mfg. Phar. Chemists,
Distillers of Essential Oils, Cultivators of Medicinal Plants,

Telephone: 95 HITCHIN.

Telegraphic Address:

"RANSOMS, CHEMISTS, HITCHIN."

Hitchin, nr. London.

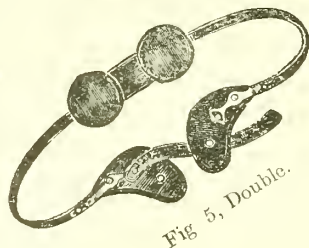


Fig 5, Double.

HARD RUBBER TRUSSES

ALL STANDARD PATTERNS
OFFERED AT ROCK-BOTTOM PRICES
BY THE ACTUAL MANUFACTURERS.

F. SCHUTZE & CO., Ltd., Black Bull Works, LONDON, N.

PETROLEUM JELLY

We are importers of finest American Jelly, Red, Yellow and White. Guaranteed B.P. Inquiries esteemed also for

GUMS. WAXES. DEXTRINE.

W. M. KIDSTON & CO., 43/45 Great Tower St., London, E.C.

Telegrams: "KIDSTONISM, BILGATE, LONDON."

Telephone: AVENUE 8057.

SAFETY RAZORS.

BRITISH MADE.

To the Chemist and Druggist.

OWING to the many Orders on my books, I have decided not to accept any more for **BRITISH MADE SAFETY RAZORS** till March 1916. This will give me an opportunity to clear them. Thanking you for your past favours and a continuance of same.

Yours faithfully,
W. P. KELLAND.

36 Camomile St.,
London, E.C.

THE BRYTSTELE OUTFIT

For Safety Razors

Safety Razors kept in a Brytstele Bath do not require to be taken apart for cleaning or drying. Brytstele Solution keeps blades sharp for at least two months without stropping. Blades and Holders are kept bright, anti-septic, and free from rust.



ATTRACTIVE OUTFITS AS ILLUSTRATED.

Retail 2s. each	...	Trade 17/- doz.
Refill Bottles (4 oz.)		
10/7. each	...	7/- "
Refill Bottles (10 oz.)	...	" "
1s. 8d. each	...	13/- "

Carriage paid on dozens only.

Good Showcards, etc.

THE BRYTSTELE Mfg. Co., 106 High Street, Camden Town, N.W.

WM. H. BOWDLEAR

Formerly of the W. H. BOWDLEAR CO.

respectfully solicits business from any and all former correspondents, either on a commission basis or otherwise.

CRUDE
REFINED
and
BLEACHED

BEESWAX

Quotations given in £ sterling, per cwt.

220 DEVONSHIRE STREET (Room 201a),
BOSTON, MASS., U.S.A.

JOHN JAKSON & CO.

(MITCHAM ROAD) LTD.

**WEST CROYDON,
SURREY.**

SEVEN FARMS
and THREE
DISTILLERIES
in SURREY.

Gold Medal

Paris
Universal
Exhibition,
1900

HORS CONCOURS
BRUSSELS, 1910.

LONDON, 1912.

MEMBER OF JURY

CHARENT, 1913.

**FRANCO-
BRITISH
EXHIBITION,
LONDON, 1908**

Grand Prize

The highest awards for
the production of
**ESSENTIAL OILS OF
PEPPERMINT, LAVENDER
and CAMOMILE**

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO.
LIVERPOOL . . . MANCHESTER



TO
ALL BUYERS OF

PARAFFIN WAX

*SPECIALITY
HIGH GRADE
... WAX ...*

APPLY TO

ASIATIC PETROLEUM CO. LTD.
S^t Helens Court, Great S^t Helens, LONDON, E.C.

BEFORE YOU PLACE THAT NEXT ORDER

See our samples and quotations of—

PURE MEDICINAL WHITE
OIL. (Odourless—Tasteless—Colourless).

FINE ODOURLESS WHITE
OIL.

HALF-WHITE OILS.

TOILET PARAFFINS.
(Delicately perfumed and coloured).

LANOLINES.
(Wool-fat. Hydrous and Anhydrous).

Our prices will save you MONEY.
Why not send us your inquiry now?

BARTOLINE (Hull), LTD.
Importers and Manufacturers,
2 Myton Place,
HULL.

Bartoline Oils & Preparations are BRITISH to the core.
[Established 1876]
WHOLESALE QUANTITIES ONLY.

FINEST PETROLEUM JELLY

(STERN'S MAKE)

LIQUID PARAFFIN

Refined in London from Russian Crude.

- † Highly recommended for Internal Use.
- † The Highest Standard of Excellence.
- † Water White, free from Taste and Smell.
- † Quality and Purity guaranteed.

WHOLESALE from the **STERN** SONNEBORN OIL CO., LTD.,

51 ROYAL LONDON HOUSE, FINSBURY SQUARE, LONDON, E.C.

Manufacturers of White and Coloured Oils, Petroleum
Jellies, 115° M.P., White, Yellow, etc.

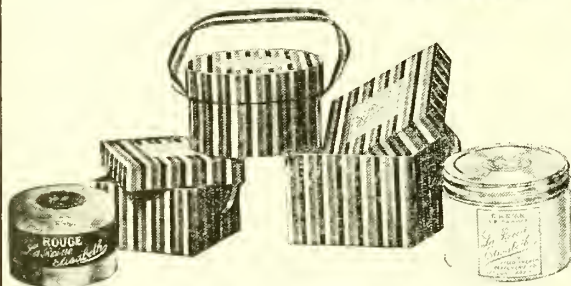
Liquid Paraffin for Spraying and Emulsions, 840/865 grade.

IMPORTANT NOTICE

The Anglo-French Perfumery Co. (Incorporated with the Parfumerie Aristocratique of Paris) have established a branch at 69 Hatton Garden, London, E.C., where they are manufacturing their high-class Toilet Preparations, viz., Face Powders, Creams, Face Milk and Lotions for all climates; also Rouge Nail Preparations, Perfumes, French and Russian Eau de Cologne, and Hair Requisites. Shippers requiring Toilet Preparations for Export are specially catered for (Customers' labels supplied with goods if required).

A New and Novel Line which is creating a big demand—packed in true Belgian colours—is very attractive, and makes a grand display in the window.

The Triple Entente of the Toilet Table—
"LA REINE ELISABETH"



Powder	...	...	10/- and 15/6 doz. boxes
Cream Vanishing & Skin Food	...	...	12/- .. 15/- doz. pots
(non-greasy)	...	...
Rouge	...	...	12/- ..

Apply for Prices and Samples to

69 Hatton Garden, LONDON, E.C.

OVER 100 % PROFIT
 ENSURED & PROTECTED (P.A.T.A.)
 for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail	Minimum wholesale.	
1/-	1/-	7/6	} per doz. less 5 % discount
1/6	1/6	9/-	
2/6	2/3	15/-	
3/6	3/3	21/-	

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.

Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz. 1/6 size to 4/6, 12/- and 27/- respectively.

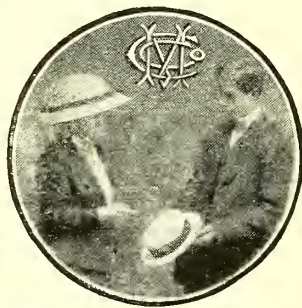
SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
 LTD.

DEVON WHARF,

Emmott Street, Mile End, London, E.

The "MILNER" STRAW HAT CLEANER



Sells well everywhere,
 2d.

It is easily used and gives complete satisfaction.

6 doz. 7/- net.
 12 " 13/- "
 With specimen hat or
 6 packets instead.
 Carriage Paid.

2 gross, 2 1/2 % 5 gross, 5 %
 10 gross, 7 1/2 %
 13 to doz. for cash with
 order.

RAILOX for NITS

Per Packet, 2d. and 6d.

A NEW INVENTION. USED DRY.
 Wonderfully Effective. Non-poisonous.
 Cannot be seen on the hair.

Specially suitable for Export; cannot break, melt, or lose its strength.



Reg. Trade Mark.

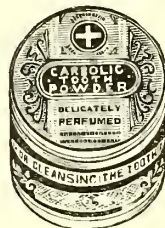
3 doz. 4/-, 6 doz. 7/-, 12 doz. 13/- net,
 6d. size 4/- per doz.

ATTRACTIVE ADVERTISING MATTER
 includes a Model Kennel, or 6 Packets instead.
 Carr. paid. 13 to doz. for cash with order.

Railox and Milner Cleaner may be
 assorted for discount.

MILNER'S CHEMICAL CO., LIVERPOOL.

Selling Splendidly!



THE
 WHITE + CROSS
**CARBOLIC
 TOOTH POWDER.**

CONFINED TO PHARMACISTS!

Two Sizes: 21/- and 33/- gross.
 1d. Sample Tin, 7/6 gross.

The Institute of Hygiene have granted their
 Certificate of Merit for this article; also for the

WHITE CROSS BABY POWDER

IN DECORATED SPRINKLER TINS:

4/- doz.; 3 doz. 3/9; 6 doz. 3/7; 12 doz. 3/3.
 On the P.A.T.A. at 6d.

Showcards issued for both articles, being a
 reproduction of the Certificate of Merit.

Write for Samples and judge for yourself.

SHIRLEY BROTHERS, LTD.

Whitecross Works, London, S.E.

Methylated Spirit

*White in colour & exceptionally
free from unpleasantness.*

Spirits of Wine

*All strengths. Absolute Alcohol.
Duty paid.
Duty free for Export and
Scientific purposes.
Try the "Extra Rectified"
for your Perfumery.*

Absolute Alcohol

Home and Export.

Chemists' Wines

*Sherry, Port, Coca,
Malt and Meat, Orange.
Orange and Quinine,
Maintains its brilliancy permanently.
Champagnes.*

WHITE CROSS SCOTCH WHISKY.

WHITE CROSS BRANDY.

Write for Samples and Quotations.

Jas. Burrough Ltd.

D1 Cale Distillery Hutton Road LAMBETH S.E.

Telegrams: "BURROCALE, LAMB, LONDON."

Telephone: HOP 3436 (2 lines).

Established at Chelsea 1820.



POWDER PUFFS

To secure all the available business, the puffs must be dainty and the prices must be right.

WE HAVE MORE THAN ONE HUNDRED VARIETIES AT PRICES COMMENSURATE WITH VALUE.

F. SCHUTZE & CO., Ltd.,

MAKERS OF POWDER PUFFS AND PERFUMERY,

'Phone : North 2782.

BLACK BULL WORKS, LONDON, N.



TWO GOOD SELLERS THAT PAY WELL

The Ideal Fruity
Laxative
in Pastille Form.

1/3 per box (P.A.T.A. minimum 1/2).

ANALAX

DELICIOUS
RELIABLE
EFFECTIVE

FROZOCLONE

The World's Great Perfumer
and Refresher—in Solid Form.
Retails 2/- (P.A.T.A. minimum 1/9)



R. DEMUTH'S LABORATORIES, 68 Salusbury Road, LONDON, N.W.

TRENCH PILLOWS
THE MOST
USEFUL PILLOW FOR SOLDIERS

1'6

TRENCH PILLOWS
1'6

TRENCH PILLOWS
1'6

**TEN REASONS WHY
Soldiers like TRENCH PILLOWS**
THEY ARE

SEND YOUR SOLDIER ONE

Supplies, which come from Japan, are limited.

This Attractive Window Scheme is FREE.

READ THE DETAILS BELOW.

AIR Pillows are wanted by the Troops. They are asking for them. The demand is on the increase. Every Derby Recruit will buy one. The sources of supply are limited, therefore make a well-directed effort to secure the whole of the business in your town.

Chemists all over the country are selling thousands. Why not you?

With each order for Air Pillows we will send a complete set of cards for making a Special Air Pillow Display—FREE.

13/- per doz.; 3 doz. lots, 12/6 per doz.; 6 doz. lots, 12/- per doz., carriage paid.

Only one Chemist in a small town or district of large town supplied.

WHAT OTHER CHEMISTS SAY:

"Glad to say I have just got an order for 140 Air Pillows; please send them off at once."

"I sold 25 Air Pillows to one customer to-day."

"A young lady has just been in and purchased 10 Air pillows and 3 dozen Stoves."

Send in your Order NOW.

LLOYD'S, 60 Tennyson Rd., Small Heath, BIRMINGHAM.

Toogood's Packed Toilet Preparations in Collapsible Tubes.



2629



2667



2508



2509



2452

No. 2629.	Toilet Lanoline	...	3 sizes	...	2/9, 3/9 and 5/6	per doz.
„ 2667.	Boracic Ointment	...	2	„	3/3 and 4/9	„
„ 2508.	Cold Cream	...	2	„	3/9 and 5/6	„
„ 2509.	Vanishing Cream	...	...	...	3/6	„
„ 2452.	Solid Brilliantine	...	...	...	6/-	„

Customer's name free on 3 dozen of any one kind, and showcard supplied.

WILLIAM TOOGOOD, Ltd., 77 Southwark St., London, S.E.

A powerful antiseptic and deodorant.

“PETAL DUST”TM REGD.

The greatest of all floral air-purifiers.

A concentrated combination of the choicest flowers, aromatic herbs and roots, with the rare spices and gums of Arabia. “PETAL DUST” has been the favourite perfume of all classes for over half a century and still commands the largest sale of any dried perfume in the world.

Retails in 3d. and 6d. packets

Attractive Showcards, Counter Bills, etc., with customer's name and address on each packet, for orders of 5 gross and upwards.

SOLE PROPRIETORS—

**THE ROSMARINE MANUFACTURING COMPANY,
STAMFORD STREET, LONDON, S.E.**

CITY DEPOT: H. C. QUELCH & CO., LUDGATE SQUARE, LONDON, E.C.

Telegraphic Address.
"CRESSWELL, WESTCENT, LONDON."

WORLD'S HEADQUARTERS FOR

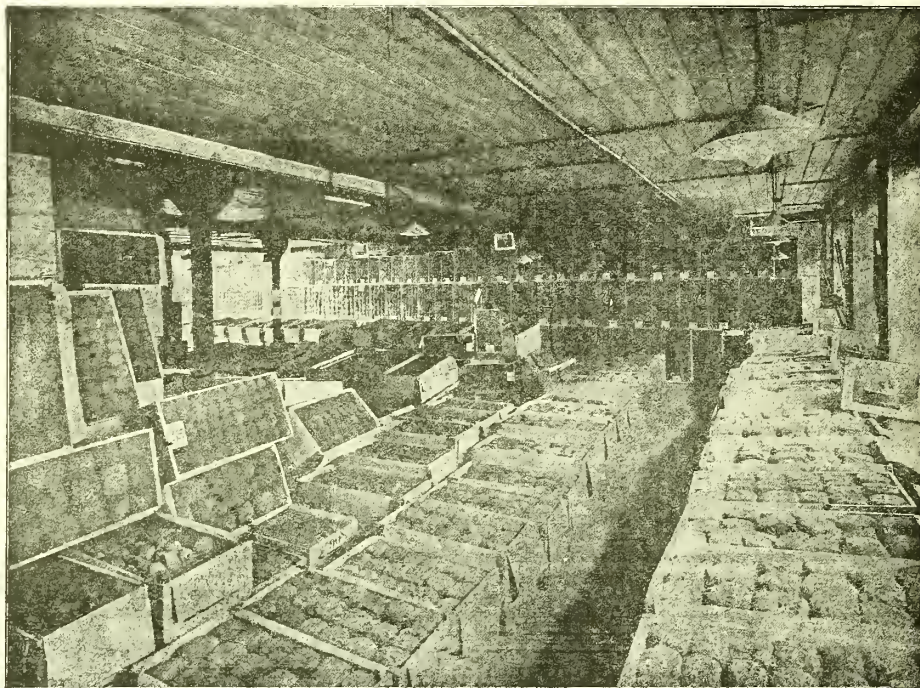
Telephone:
No. 1432 HOLBORN.

SPONGES

INTERNATIONAL SPONGE IMPORTERS, LIMITED.

CRESSWELL BROTHERS

Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers,
18 & 19 RED LION SQUARE, New Warehouses and Steam Bleacheries, LONDON, W.C.
45 EAGLE STREET.



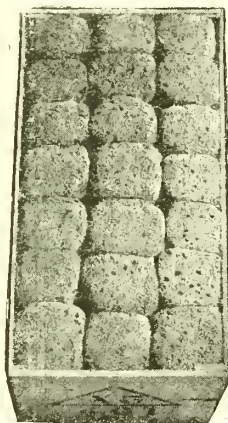
Largest
Sponge
Warehouses
in the
World.

Our Stocks
and
Selections
are
Unrivalled
in Value
and Extent.

View of Mediterranean Case Goods Department (Floor Space 3,000 sq. ft.) where Chemists' and Druggists' Sponges are shown.

Buyers are invited to call to inspect our Magnificent Stocks and make their own Selections. Lowest Market Prices. Absolutely Best Values. The following abridged List will serve as a guide to Buyers when writing.

UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.



HONEYCOMB.

Extra Choice.
The Pick of all
the Fisheries.

FINEST TEXTURE and SHAPE.

Pieces in Case.	Average Price per Piece.
300 Toilet	at 9d.
250 "	" 1/-
200 "	" 1/6
160 "	" 2/-
140 "	" 2/6
120 "	" 3/-
100 "	" 3/6
90 Medium Bath	4/6
80 "	" 5/6
72 "	" 6/6
60 "	" 7/6
45 Large Bath	8/6
30 "	" 10/6

HONEYCOMB.

Toilet & Bath
Good 2nd
Quality.

Pieces in Case.	Average Price per Piece.
300 at	4d.
270 "	9d.
180 "	1/-
170 "	1/6
160 "	1/6
140 "	2/-
120 "	2/6
110 "	3/-
90 "	3/6
80 "	4/-
75 "	4/6
70 "	5/-
65 "	5/6
60 "	6/6

FINE TURKEY CUPS

1st Quality.

PICKED SHAPES.

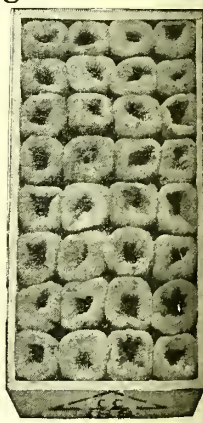
Pieces in Case.	Average Price per Piece.
300 at	1/6
200 "	1/6
150 "	2/-
140 "	2/6
100 "	3/-
90 "	3/6
80 "	4/-
70 "	4/6
60 "	5/-
50 "	6/-
Bath	45 6/6
Selected	40 7/6

FINE TURKEY

SOLIDS.

SELECTED SHAPES.

Pieces in Case.	Average Price per Piece.
200 at	6d.
200 "	8d.
200 "	1/-
Toilet	150 1/3
"	100 1/9
"	100 2/6
Bath	50 3/-
"	36 4/-
"	24 5/-



IMPORTANT NOTICE.

THE CONTENTS OF THE ABOVE CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST.

LOOSE GOODS DEPARTMENT

Sponges in Small Packages. Fine Turkey. Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities. Bleached or Unbleached (state which in order). On Strings of 1 dozen pieces or loose in bags. At per dozen 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.

NEW VELVET HONEYCOMB. Soft, Durable and large for money. Suitable for Toilet and Bath purposes.

PRICES—Cut Shapes 3s., 4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s. per dozen.

" Natural Shapes 4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s., 30s., 33s., 36s. "

Strongly recommended where an inexpensive Toilet and Bath Sponge is required.

TIDMAN'S SEA SALT

ON P.A.T.A. LIST.

INCREASED PROFITS TO ALL WHO KEEP IT IN STOCK.

Orders of Twenty Shillings value and upwards Carriage Paid—Cases Free, less 2½ per cent. Discount for Cash.

	Advertised Price Per Box.	Minimum Retail Price Per Box.	Minimum Wholesale Price Per Gross.
1. Packets ...	1/-	12 in box 11d.	8 6
d. " ...	2/-	" " 11d.	16 9
d. linen Bags ...	1/-	" " 11d.	8 6
d. " ...	1/-	6 in box 11d.	16 9
boxes, about 1½ lbs. ...	4d.	3d.	2 10 doz.
" " 3½ " ...	8d.	7d.	5 8 "
" " 7 " ...	1/2	1/-	10 - "
" " 14 " ...	2/-	1/10	18 3 "

INGLE BAGS of following 3 sizes sent CARRIAGE PAID to any place in the United Kingdom, so that there is no Stock to hold.

	Advertised Price.	Minimum Retail Price.	Minimum Wholesale Price.
8-lb. Bags (or boxes) 3/- each ...	3/-	3/-	2 6 each.
cwt. Bags ...	5/6	5/6	4 7
cwt. Bags ...	10/-	10/-	8 4 "

he following are also sent carriage paid, cases free, to any place in the United Kingdom:

-7 lb. Boxes, 3/6 the lot. 6-7 lb. Boxes and upwards at 10/- per dozen (list price).

orders for assorted sizes to the value of 7/6 and upwards.

TIDMAN & SON, Ltd., Wapping, London, E.

THE RIGHT HOUSE ^{for}

Perfumes, Toilet Preparations and
Eau de Colognes (British distilled).

CORBYN'S,
BLACK BULL WORKS,
LONDON, N.

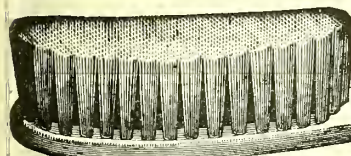
INQUIRIES SOLICITED

SPECIAL
QUOTATIONS
TO WHOLESALE BUYERS.

Vanilla
Nail-Enamel
Coral Tooth Powder & Paste
Corbyn's Perfumery
British distilled
Eau de Cologne
Grants Buttermilk
Bath Soap
Fragrant Gels
Savon
Oxygen Tooth
Powder
Dewar's Toilet
Cream
ALL TOILET
PRODUCTIONS.
L.F.



F.S. & CO. LTD.



Bidwell Bidwell & Co

BIDWELLS' TOOTH BRUSHES.

NO LOOSE HAIRS.

Please send for Catalogue—

BIDWELL, BIDWELL & CO., Ltd., AXMINSTER, DEVON.

LONDON OFFICE: BUSH LANE HOUSE, CANNON STREET, E.C.



Eau de Cologne "RHEIMS" Brand

-/6 Bottles	....	per doz.	4/6
1/-	....	"	9/-
2/-	....	"	15/-

Subject to usual 5% discount.

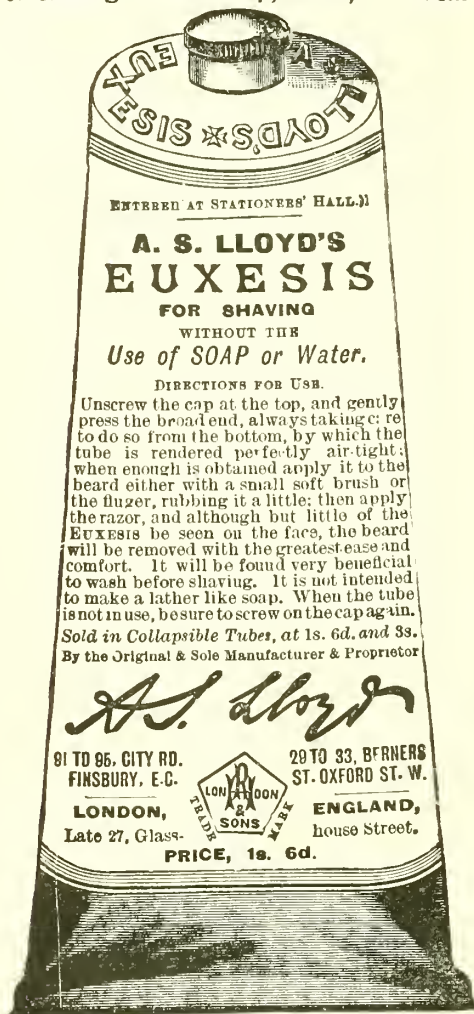
A good lasting perfume selling freely as a patriotic line wherever it is shown.

"Newbery's"
CHARTERHOUSE SQUARE LONDON

A. S. LLOYD'S EUXESIS

(THE GENUINE.)

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/- per dozen, 9/6 by the 3 dozen, 9/- by the 6 dozen.
Retail at 1/6 the Tube; 3/- size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: **R. HOVENDEN & SONS, LTD.,**
LONDON: 29-33 Berners Street, W.; and 89-95 City Road, E.C.

BEETHAM'S "LAROLA"

(Registered)

Is the Skin Tonic for 1916.

It is effective.

It is attractive.

It is price-protected.

It is well-advertised.

It sells readily.

It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, Cheltenham.

AN EFFECTIVE 3^d. LINE!



CONSISTS of a piece of velvet-backed Corn Plaster, containing 40% Salicyl. Acid (3" x 1 1/2").

2/- doz.; 21/- gross. 3 doz. on Card.

1 Card, post free 6/-. Each packet bears picture of a Cornfield, Trees and Poppies. POSTAGE CHARGED IF SENT ABROAD.

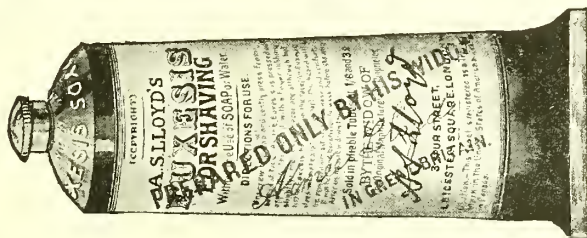
THOS. SWALES, 24 Butts Court, LEEDS.

A. S. LLOYD'S EUXESIS

For Shaving
without
Soap, Water,
or Brush.

CAUTION to the TRADE

Labels on the genuine EUXESIS not only bear signature of A. S. Lloyd in Black Ink, but also "Prepared only by his Widow and signature of 'Aimee Lloyd'" in RED.



Sole Manufacturers and Proprietors :

AIMÉE LLOYD & Co.,

23 PANTON STREET
(Formerly named SPUR STREET),

HAYMARKET, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

SOLPORT BROS.

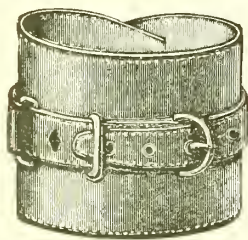
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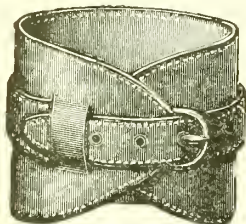
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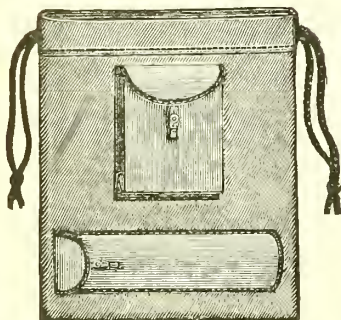
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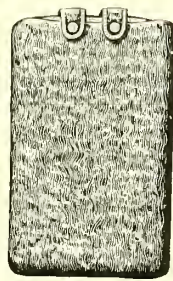
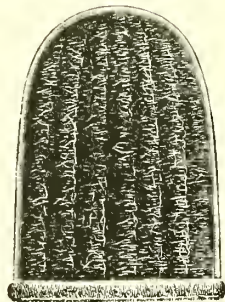
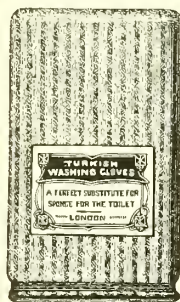
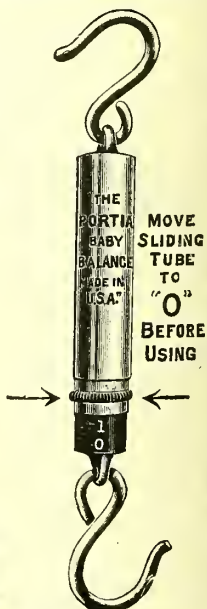
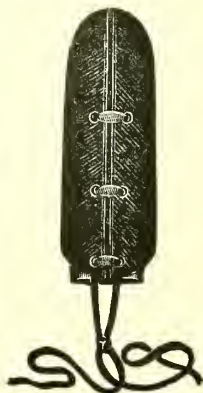
Model. G.T.

THE "PORTIA" BABY BALANCE.

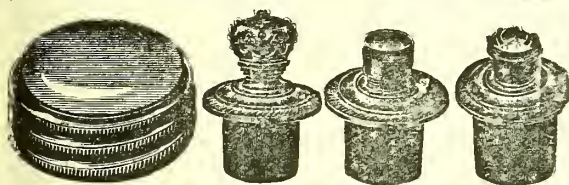
Will Weigh Baby.
Will Weigh Anything



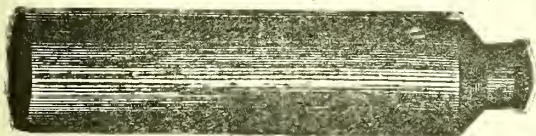
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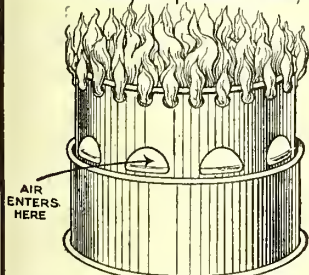
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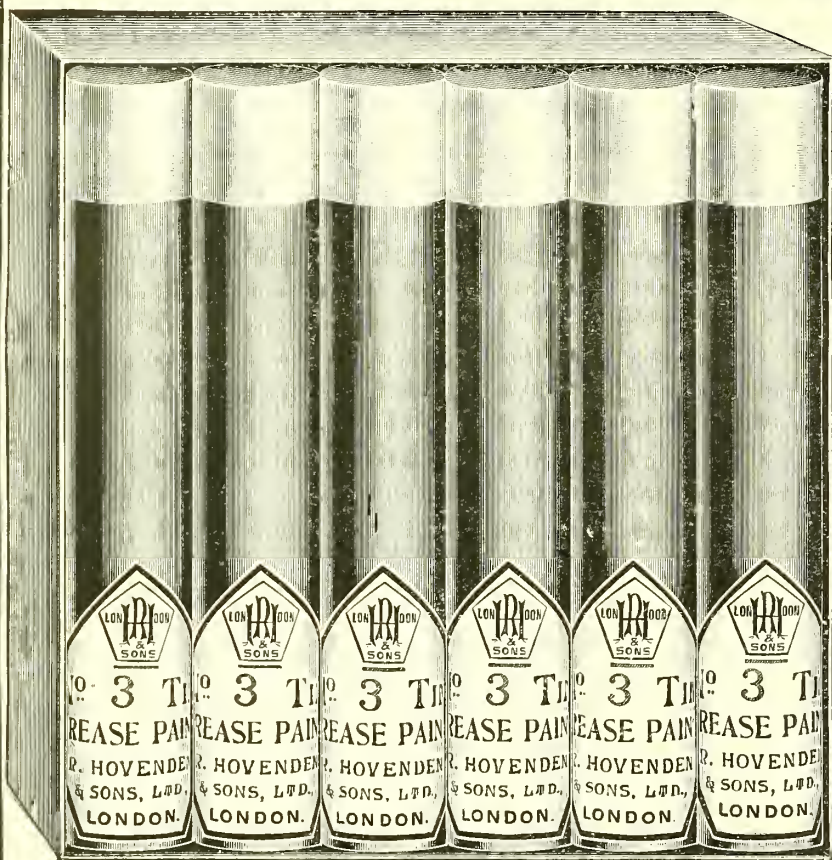
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3½	Slightly sunburnt	19	„ light
4	Dark flesh	21	„ medium
5	Sallow or Chinese	22	„ dark
5½	Dark sallow		
6	Yellowish flesh	20	White
6½	Japanese	23	Light grey
7	Brown	24	Dark grey
8	Armenian Bole	25	Old Red
9	Sunburnt or Indian	26	Light blue
10	Light brown	31	Middle blue
11	Burnt umber or Othello	27	Dark blue
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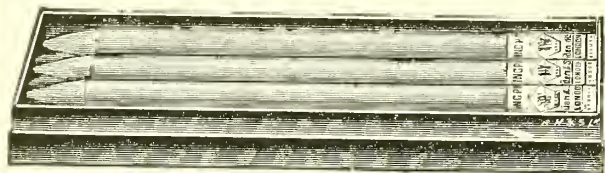
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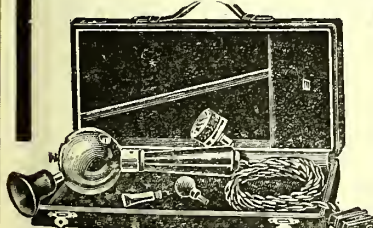
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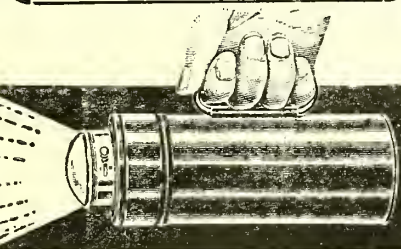
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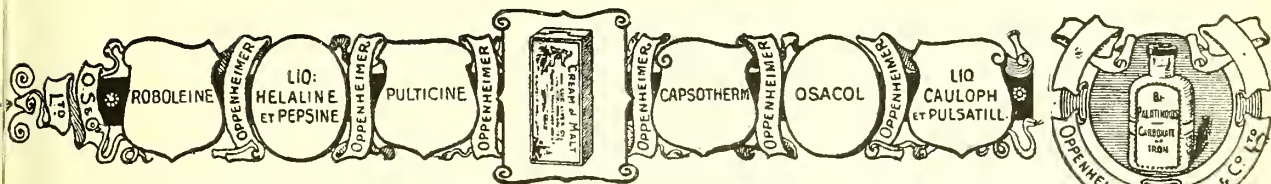
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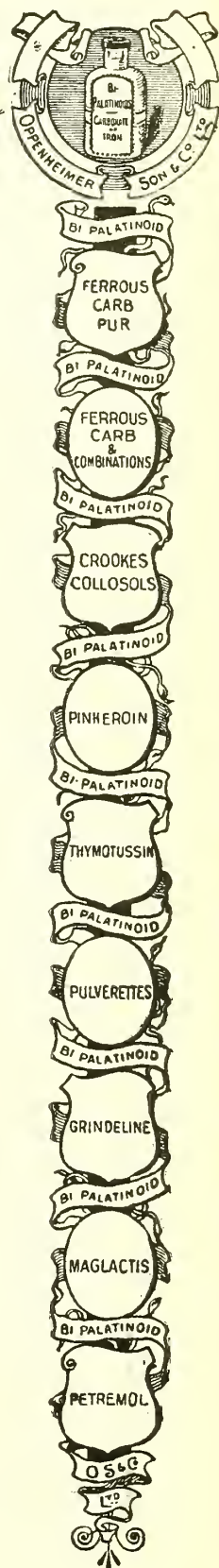
CONFIDENCE.

C Confidence is the basis of all sound salesmanship. Regular customers are regular customers because they have confidence in you. Before you can create confidence you must have confidence yourself in the goods which you handle. This is born of knowledge and experience.

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66 'HAZELINE' SNOW' (Trade Mark)

The pioneer non-greasy toilet emollient. Of rare elegance.

In glass pots

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Highly nutritious and digestive. In extensive demand for humanising cow's milk for infants.

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Cod Liver Oil with Malt Extract

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Liquid paraffin of B.P. quality. Correct viscosity for intestinal lubrication.

In bottles of 4 fl. oz. and 1 lb.

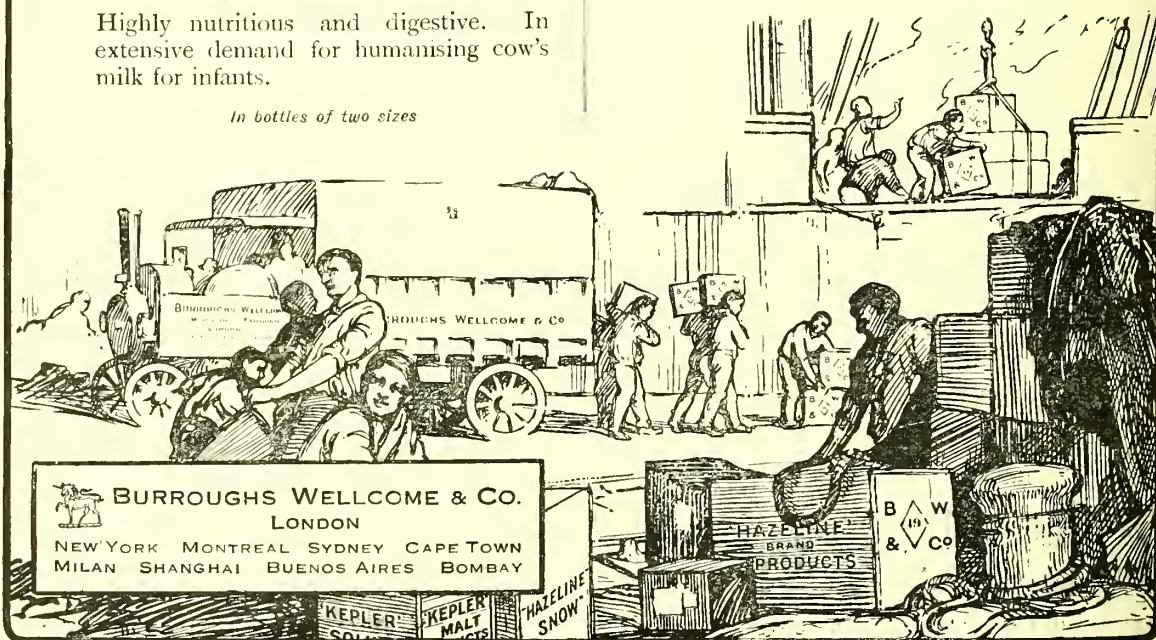
TRADE 'LAXAMEL' MARK

Very palatable, jelly-like, contains 80% (approx.) of 'Paroleine.' Sells at sight.

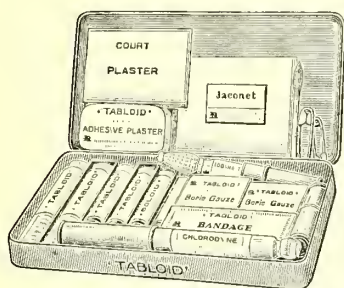
In large glass jars

See also B. W. & Co.'s List

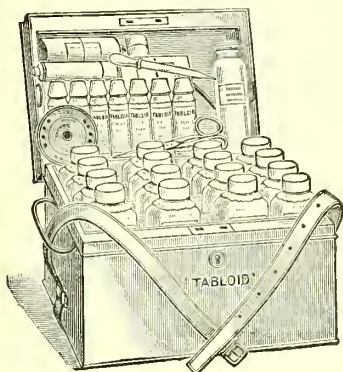
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No. 109 'Tabloid' Medicine Pocket-Case
For Military Officers
Measurements: $6\frac{1}{4} \times 3\frac{1}{4} \times \frac{7}{8}$ in.



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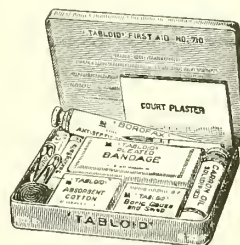
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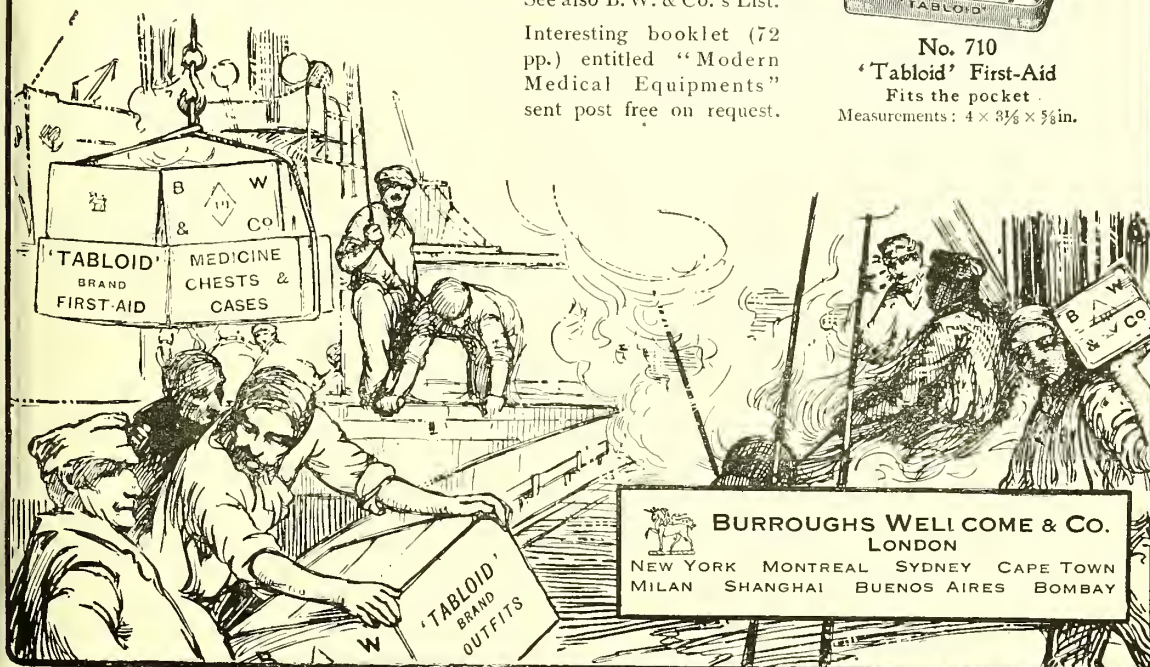
etc., etc.

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Interesting booklet (72 pp.) entitled "Modern Medical Equipments" sent post free on request.



No. 710
'Tabloid' First-Aid
Fits the pocket.
Measurements: $4 \times 3\frac{1}{2} \times \frac{5}{8}$ in.



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'Panopepton'

'PANOPEPTON' presents the entire edible substance of prime lean beef and best wheat flour in a perfectly soluble, diffusible, and absorbable form. It is at once a grateful stimulant and food.

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R. Glycerinum Pepsini, Concentrated (Fairchild)	16 oz.
Acid Hydrochloric	40 minim.
Glycerin	...	...	...	...	...	4 oz. 6 drms.
Distilled water, sufficient to produce	...	...	...	...	...	24 oz.

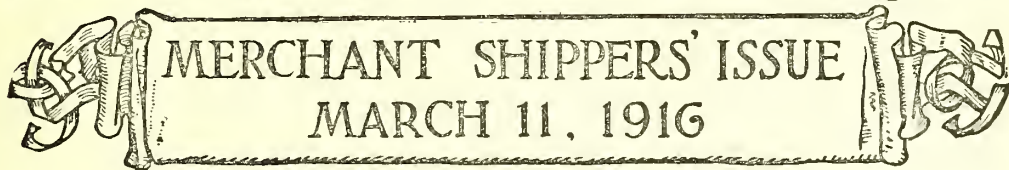
Supplied in 4 oz. and 16 oz. (fluid measure) at 16/- and 48/- per doz., and in Winchester Quarts at 18/- each.
These prices are subject to B. W. & Co.'s Terms.

GLYCERINUM PEPSINI CONCENTRATED (FAIRCHILD) may be obtained from all Wholesalers.

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Summary.

The report of the Royal Commission on Venereal Diseases is summarised on p. 74.

The decision of the Court of Appeal is that "Ogee" as a trade-mark is inadmissible (p. 67).

British overseas trade is improving (p. 72). Suggestions for improving trade with Holland are given on p. 76.

The results of the Corner for Students competition and the Prescription Problem are given on pp. 60 and 66.

The New South Wales Government has issued revised regulations and standards under the Food and Drugs Act (p. 78).

Some notes on Garraway's Coffee House, which figured largely in the commerce of the seventeenth and succeeding centuries, are given on p. 77.

The recruiting problem is dealt with in an article on p. 73, and numerous decisions given by Local Military Tribunals are printed on p. 58.

Among the reports in this issue of scientific meetings are those of the Chemical Society (p. 76), the Society of Chemical Industry, and the Society of Public Analysts (p. 68). The balance-sheet of the British Pharmaceutical Conference is summarised on p. 82.

Numerous market changes are reported this week, including an advance in bismuth metal and salts, chloroform, citric and tartaric acids. Vanillin, methyl salicylate, and barbitone are among the easier products. A fair demand was shown at the drug-auctions (p. 83).

European War.

A Year Ago To-day.

(War News from the "C. & D." March 13, 1915.)

A series of three illustrated articles dealt with various phases of the war in France—e.g., British Red Cross work and the status of military pharmacists. The Imperial Institute directed attention to *Hyoscyamus muticus*—grown in Egypt—as a source of hyoscyamine. The new Canadian war taxes were given. The particulars of the registration of British Dyes, Ltd., as a limited company were printed. The War Wants Exchange Column was commenced in the Coloured Supplement.

Pharmaceutical Roll of Honour.

Non sibi sed patriæ.—CICERO.

SEVENTY-SEVENTH LIST.

BOYDE, Corporal E. (formerly with Lowe & Co., Ltd., Surbiton), 2/1 Home Counties Casualty Clearing Station (T.F.), attached to a military hospital.

GROVES, Private E. H. (formerly with Mr. H. Swaby, East Molesey), 2/1 Home Counties Casualty Clearing Station (T.F.).

LAING, DAVID BURNETT (son of Mr. James Laing, chemist, Laurencekirk), 4/1st Highland Field Ambulance R.A.M.C.

PHILLIPS, A. E. E. and A. G., Engineers (Signal Section), C. W., Bedfords, and J. H., 12th Essex, sons of Mr. A. W. Phillips, pharmacist, Portobello Road, London, W.

Export Notices.

AUSTRIA-HUNGARY.—According to a Ministerial Decree of February 5, the importation and transit of the following articles is prohibited when they come from countries or colonies or protectorates of countries with which Austria-Hungary is at war: Saffron, figs, oranges, distilled spirituous liquids (with the exception of wine and rum), sparkling wines, photographic dry-plates, vinegars, fats and fixed oils, aromatic spirituous essences, perfumes, cosmetic articles.

DENMARK.—Artificial honey has been placed on the list of prohibited exports.

FRANCE.—The Board of Trade is in receipt of copy of a French Presidential Decree of February 12 which prohibits the exportation and re-exportation (after warehousing, transit, transhipment, or under the "temporary admission" régime) from France of agar-agar or librine; varec and other sea-weeds from which iodine can be extracted; vegetable waxes; palladium metal, pure or alloyed; wares of platinum, rhodium, ruthenium, iridium, osmium, and palladium, pure or alloyed, except mounted jewellery. Exemptions may be granted under conditions to be laid down by the Minister of Finance.

NORWAY.—Ammonium chloride, copper oxide, and copper protoxide are among the latest export prohibitions from Norway.

SWEDEN.—The Swedish Chamber of Commerce for the United Kingdom is in receipt of a cable from the Swedish Board of Trade, Stockholm, dated March 2, to the effect that antimony (raw and manufactured) and platinum (raw and manufactured) have been added to the list of prohibited exports.

C

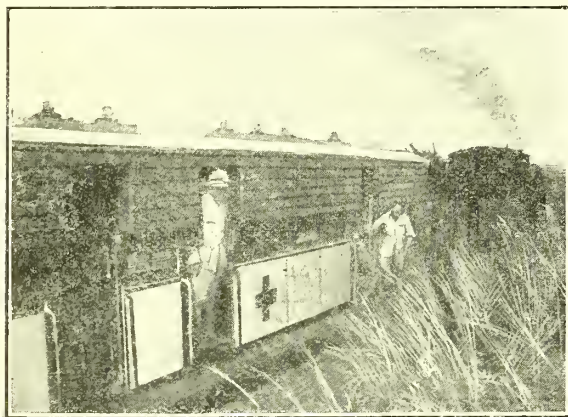
Miscellaneous.

SMUGGLING FROM HOLLAND.—Mr. J. van Vollenhoren, one of the members of the Executive Committee of the Netherlands Oversea Trust, who is in this country, has made the statement that the organisation is now complete, and the N.O.T. is in a position to carry out all that it undertakes. "There has been," he added, "some not unnatural impatience shown over here in regard to smuggling, which will always be attempted, but it should be borne in mind that you can only stop an express train gradually; if you try to do it immediately it goes off the rails."

PROHIBITED IMPORTS.—The Woods and Stones Licensing Committee, Gwydyr House, Whitehall, S.W., on March 3 published a list of "furniture-woods, hardwoods, and veneers" the import of which is prohibited. These include acacia; cedar; dogwood (*Piscidia erythrina*, the bark of the root of which is used in medicine); greenheart (*Nectandra Rodiei*, the bark of which is employed in medicine); juniper; guaiacum, *lignum vitæ* (probably the last two entries both refer to *Guaiacum officinale*); sandalwood, white or yellow (from which sandal oil is distilled); and sanders, white or yellow.—A Proclamation is to be issued prohibiting the import of "canned, bottled, dried, and preserved fruits, except currants," but not produce from any part of the British Empire. Confection of senna, with its figs, tamarinds, cassia-pulp, and prunes, will probably be enhanced in price in consequence.

East African Campaign.

Campaigning is still going on in East Africa (writes a correspondent), although nothing of a big battle has been fought yet. At present we are kept well employed with patrol affairs, and small "scraps" are almost weekly



A HOSPITAL TRAIN IN B.E.A.

occurrences at one point or other of the long frontier stretching from the coast to the Belgian Congo. A big move will take place sooner or later now that we have South African troops to assist us. The present rulers of German East Africa will perhaps have as big a surprise as a captured German patrol got the other day when it discovered we had British "Tommys" in B.E.A. The Germans had been given to understand across their own border that Britain is hard put to it, and could not spare a man. Settlers in British East Africa are no longer surprised at the proportions the campaign has assumed. There are quite a number of chemists now in the country with the Forces. Four chemists are here from Rhodesia, while one at least—G. Christie, brother of J. Christie, of Johannesburg—is here with the South African Horse. He is staff-sergeant on the Mounted Ambulance. The Rhodesian men are Sergeant-Major Henwood, medical storekeeper, who was through the South-West campaign (in civil life he is dispenser at Hartley Hospital, Rhodesia); Sergeant-Major Jones, medical storekeeper, who was through the South-Western campaign, and lately assistant with Lennon, Ltd., Salisbury; Corporals Holdsworth and Kerridge, both of Smart & Copley's, Bulawayo, are attached to No. 1 and No. 2 E.A.F.A. respectively; Sergeant-Major R. Stobo, of Howse & McGeorge, is still with the Uganda Medical Service somewhere on the Border. Mr. R. McGeorge is for the time being Assistant Surgeon on a hospital train. Other chemists and their assistants in Nairobi are members of the Nairobi Defence Force.

Local Tribunals' Decisions.

The following are some of the cases of trade interest that have been reported to us since our last issue:

BARNESLEY.—A dispenser under the National Insurance Act was given exemption from service on February 28.—A chemist's application for exemption for his qualified dispenser was refused. He had two other assistants and an elderly man working part time. About 250 prescriptions were dispensed weekly.

BATH.—On March 2, Mr. G. T. Kingston, chemist and druggist, 33 Gay Street, applied for exemption for Mr. T. E. Kingston, chemist and druggist, who is responsible for National Insurance dispensing. Exemption was granted subject to Mr. Kingston remaining at his present duties.—On March 6, H. W. Black, E. T. Card, and Sidney Cooper, pharmaceutical students, were granted temporary exemption to enable them to sit for their examination in April.—Mr. D. A. Evans (Steele & Marsh) applied for temporary exemption for an assistant engaged in dispensing and analysis. His firm dispenses 16,000 prescriptions yearly, but is not on the Insurance panel. Three months' exemption was granted.

BATLEY.—A chemist, who applied for exemption for his assistant engaged in Insurance dispensing, was asked, "What about a woman dispenser?" He replied that they are unobtainable. Exemption was granted until May 1 to enable the applicant to find a substitute, male or female.

BEDFORD.—On March 1, a chemist applied for a certificate of exemption for his qualified assistant. Applicant stated that he has already released six men for service, and if this one goes it will mean closing a shop, as it is impossible now to get a qualified chemist. The appeal was refused.

BLACKBURN.—On March 6, a wholesale chemist applied for the exemption of his commercial traveller on the ground of his indispensability, pointing out that he also made up medicines in the evening. The firm's representative said it is impossible to get girls to dispense medicines. The application was refused.

BLACKPOOL.—On March 2, a dispensing chemist claimed exemption on business and domestic grounds. The business, he said, could not be carried on without his personal supervision. The case was adjourned for a week to enable the applicant to go on the Insurance panel, when he becomes exempt from military service.

BOLTON.—A chemistry student at Manchester University sought exemption from Army service. Professor H. B. Dixon, acting as inspector of high explosives in the Manchester district, wrote pointing out that the youth would be better employed in pursuing his studies, especially as he is engaged in testing explosives under the Ministry of Munitions. He was exempted until May 31.

BRIGHTON.—A chemist, aged thirty-nine, in the employ of a firm on the Insurance dispensing panel, applied for exemption. Applicant is the only qualified dispenser left with the firm. The Recruiting Officer recommended exemption because the applicant is engaged in a reserved occupation. The applicant, who added that he is engaged in the largest Insurance dispensing business in Brighton, was granted exemption.—In another case at the same sitting, a panel chemist claimed exemption for his dispenser on the ground that competent dispensers, rare before the war, are now unobtainable, and also that the occupation is a reserved one. A certificate of exemption was granted.—A chemist, who said that his business would have to be closed if he went on military service, was granted three months' exemption.

CHELTHAM.—On March 3, a chemist was granted exemption so long as he dispenses under the National Insurance Act.—An assistant who applied at the same time received temporary exemption for three months.

CHOBHAM (SURREY).—On February 25, a chemist applied for exemption of his son, aged thirty-five. Applicant is over seventy years of age, and has no other employé. His son is not a registered chemist. Two months' exemption was granted.

COVENTRY.—Mr. H. Welton, chemist and druggist, with two shops, obtained conditional exemption for two assistants.—Mr. Joseph Robinson, chemist and druggist, also with two shops, applied for exemption for an assistant, stating it is necessary to have two men at the town shop. The military authorities objected, and the Tribunal agreed with the objection. The solicitor appearing for Mr. Robinson said he should appeal against the decision.

CROYDON.—On February 24, the principal shareholder and manager of a druggist's stores in North End asked for the exemption of his sole remaining male assistant. Three assistants out of four have joined the Army, and

he had been unable to replace them. Appellant stated that the man is not a pharmaceutical chemist, but a chemist by experience. He has been dispensing for many years. It is absolutely impossible to find anyone to replace him. Postponement was granted to the end of May.

CUPAR, FIFE.—On February 29, a panel chemist was granted exemption until May 30. In reply to his question as to why he could not get total exemption, the Chairman said that he might sever his connection with the panel at the end of three months and sit tight with an exemption he had obtained.

DONCASTER.—A chemist who claimed exemption for his assistant said temporary substitutes are difficult to obtain. Conditional exemption was granted so long as the young man remained in a certified occupation.

EASTBOURNE.—An assistant at a drug-store, not a qualified chemist, appealed to be exempted from military service on the ground that he has a conscientious objection to taking human life as being contrary to the teaching of Christ. Applicant was excused from combatant services.

FOLKESTONE.—On March 1, Mr. Charles Cumber, assistant to Mr. J. W. Stainer, Ph.C., applied for exemption on the ground of a conscientious objection to warfare. Mr. Stainer also applied on the ground that Mr. Cumber's occupation is in the national interests, as he is engaged in radiographic and pathological work for hospitals. The Military Representative said that no chemist under the National Insurance Act is allowed to have more than one assistant, and Mr. Stainer has two. Applicant, a Quaker, was exempted from combatant service.

FORFAR.—Mr. Malcolm Macfarlan, chemist and druggist, applied for exemption for Mr. W. W. Gardiner, manager of his branch shop in Castle Street, pointing out that he is engaged partly in dispensing Insurance prescriptions. The Chairman stated that the Advisory Committee think that two shops are unnecessary, but exemption was granted for two months.

GORLESTON.—At Yarmouth on March 6, a chemist's manager at Gorleston in sole charge of two businesses applied for a certificate of exemption. He stated that his employer is serving in the A.S.C. motor transport in France. He is the only person employed in one shop, and there is no other chemist's shop within a mile. The business has contracts running with the Insurance Committee, with the Board of Guardians, the hospital, etc. Conditional exemption was granted.—A hairdresser and tobacconist and advisory chemist to manufacturers of toilet-requisites applied for exemption. The claim was disallowed, although applicant pointed out that the financial loss would be serious.

GREAT HARWOOD.—On February 25, a young man, appealing for postponement of military service, said he kept drug and medical stores, and was the main support of a home. He only asked for time to dispose of his business. He was granted until March 31.

HASLINGDEN.—On March 4, a young man of twenty wanted to have the opportunity of entering for his final examination as a chemist. There is an examination in March and another in July. He was put back to the end of May, so as to "give him a chance."

HAYWARD'S HEATH.—On March 4, a chemist's assistant, supporting a widowed mother and three sisters, and whose only brother had fallen in action, was granted exemption so long as the present circumstances exist.

HEDNESFORD.—On March 6, Mr. R. Whittle, chemist and druggist, applied for exemption for his assistant, who is engaged with Insurance dispensing. Two months' postponement was granted.

ISLINGTON.—The Tribunal considered an appeal made on behalf of a young man engaged with a manufacturing chemist. Applicant said he did not make pills or ointments, but bromides and other chemicals. Unable to ascertain exactly the young man's occupation, the Tribunal granted provisional exemption for a month.

KEIGHLEY.—On March 6, a chemist's assistant in his father's business, and who had been rejected on account of defective eyesight when he applied for a commission in the Army, was granted exemption until June 1.

KING'S LYNN.—A chemist's manager applied for exemption. The business in which he is employed is owned by a widow, and there is no assistant, nor is he able to obtain an unqualified assistant. He had not advertised for a qualified chemist, as, being an Insurance dispenser, he considered he was exempt. Exemption was granted for three months.

KINGSTON-ON-THAMES.—On March 3, a panel chemist was granted conditional exemption until August 31.

LICHFIELD.—On February 28, a local chemist applied for exemption for his dispenser, who is his only assistant and

is fully occupied in dispensing. Last year the business dealt with 12,000 prescriptions, including those for the National Insurance Act. The Military Representative objected, contending that a lady dispenser could be employed. The Mayor said that as the applicant is on the panel he is under an obligation to the State. Exemption was granted until March 31 to enable a lady dispenser to be found.

MEXBOROUGH.—A chemist, in applying for exemption for an assistant, declared him to be indispensable. The application was refused.

MIDDLETON.—The manager of the chemist's department of the Middleton Co-operative Society applied for the exemption of an assistant who is studying for the pharmaceutical profession, and is indispensable for Insurance dispensing. Exemption was granted until May 1, the Mayor remarking that perhaps by that time some further instructions would have been received with reference to reserved trades.

MORLEY.—On March 1, Mr. S. A. Sheard, chemist and druggist, applied for exemption for a qualified pharmacist and a laboratory hand. The pharmacist was exempted until July 1, and the other appeal was refused. At the same court a patent-medicine manufacturer was granted exemption until June 1, and advised to be examined by the Army Medical Board in order to confirm a medical certificate which he presented.

NEELON. On February 24, a wholesale druggist and dry-salter applied for exemption on the ground that his co-partners, his mother and sister, are unable to carry on the business without him. If they had an assistant they would have to give away all the secrets of various recipes prepared during the last twenty years. The Military Representative said the applicant was not indispensable. The claim was not allowed.

OTLEY.—The appeal for exemption of a nineteen-year-old chemist's apprentice was based on grounds that it is in the national interest that he should be employed where he is instead of on military service. His employer, Mr. J. W. Mainprize, said the youth has served half his apprenticeship. The application was refused.

QUEENSBURY.—On March 1, John Brooksbank, apprentice to Mr. A. Hanson, chemist and druggist, Queensbury, applied for exemption on the ground that he is in a certified occupation, that of dispenser under the National Insurance Act. Mr. Hanson stated that if applicant is taken he will have to give up his agreement under the Insurance Committee, as it is impossible for him to do the work alone. Exemption was granted until September 1, with the option of another appeal.

ROMSEY.—A qualified chemist applied for exemption as the sole manager of a shop, and was backed up in his application by his employer, who has two other shops. Applicant, who said it takes four years to qualify, and it is difficult now to get qualified persons, male or female, was put back for thirty days.

ST. HELENS.—On March 3, a pharmaceutical student, who said his examination would take place in July and that he had been rejected for the Army on account of varicose veins, was refused exemption.

ST. IVES (HUNTS).—A partner in a local firm of chemists applied for exemption on the ground that it is expedient in the national interest that he should continue in his present occupation. The firm did a lot of Insurance dispensing. Applicant is the only person left in the shop, and cannot be replaced. Six employees have enlisted. It is impossible at the present time to get a married man to take his place; he had proved this by asking travellers. The Military Representative said the firm have two shops, and it is a question whether they could not be amalgamated. Exemption for two months was granted.

SALISBURY.—An assistant with Hardy & Son, chemists, was granted exemption for two months. Mr. Hardy said the young man is his only assistant, and he had been unable to obtain a substitute.

SCARBOROUGH.—An assistant employed in Insurance dispensing claimed exemption, and his application was backed up by his employer, who said that he will be obliged to give up his contract with the Insurance Committee if the application is not granted. Exemption was granted on condition that the assistant remains at his present occupation.

SHANKLIN.—Mr. A. J. Pionchon, engaged with Mr. A. Ashfield, Ph.C., asked for exemption on the ground that he is a chemist's dispenser. Conditional exemption was granted.

SHOREDITCH.—Mr. Sam Briggs, chemist and druggist, 197 Hoxton Street, N., asked for the exemption of his assistant, Wm. Geo. Lydford, who helps in dispensing and whose services are indispensable. The exemption was not allowed.

SHOREHAM.—A chemist's assistant applied for exemption on the ground that he is a student in his last year and is

studying for the Pharmaceutical examination. Six months' exemption was granted, but the Chairman warned him that the military authorities may appeal against this decision.

SOUTHBOROUGH (KENT).—On March 2, Mr. G. E. Green, chemist and druggist, asked for a certificate of exemption for Horace Miles, his assistant, on the ground that he is necessary for the carrying-on of the business, which includes Insurance dispensing. Six months' exemption was granted.

SOUTHEAST-ON-SEA.—On February 24, a chemist's assistant, a registered pharmacist, employed in his brother's business at Leigh, applied a second time for exemption from military service. He stated that on an average he makes up thirty prescriptions per day. The Military Representative: Making up thirty prescriptions per day is not a very strenuous occupation for one man? Applicant: Yes, very strenuous. The Mayor (Alderman J. Francis) observed that if the owner of the business dispensed under the National Insurance Act his was a reserved occupation, but he did not. The appeal was refused.

SOUTHWARK.—At a meeting of the Tribunal attention was called to a case where a single man, whose registration-card showed him to be a clerk in the service of a commission agent, produced a certificate, when given notice to join the Army, showing him to be a prismatic-compass maker in the employ of a City firm. The Recruiting Officer thought this was a case to which publicity should be given, seeing that in a month from the date of attestation as a clerk the man obtained exemption as a duly qualified scientific-instrument maker. As the man is now in a "starred" trade no action was taken.—Mr. T. Gard, disinfectant-maker, Hill Street, Borough, asked for exemption, as, although he has no religious objection to military service, he felt that his nervous state would not allow of his being connected with any military matters. His application was rejected.—Dr. Bromley, Dean of Guy's Hospital, applied for the exemption of two students necessary to maintain the efficiency of the dental department. Exemption was granted in both cases.

TAUNTON.—An assistant with Gregory & Wrenn, Ltd., applied for exemption on the ground that he is engaged in Insurance dispensing. The Mayor doubted whether the assistant was in a reserved occupation, but applicant replied that this is so. The Mayor suggested that the company should give up some of their other work to continue Insurance dispensing. Exemption was not granted, but an appeal is to be made.

THIRSK (YORKS).—On March 2, a chemist appealed for exemption for his dispenser. It was explained that one dispenser has enlisted, and it is necessary that the other one should be retained for Insurance dispensing. Exemption for three months was granted.

TILBURY.—On March 1, a chemist, chiefly engaged in dispensing under the National Insurance Act, applied for a certificate of exemption. He is the manager of a pharmacy, and his place cannot be filled by a woman. Temporary exemption for three months was granted.

WALLINGTON.—On February 24, a claim was made by a Beddington Corner hairdresser and chemist, on business grounds. It was stated that the applicant's shop is a great boon to the inhabitants. The application was postponed so that the Military Representative could visit the shop and report.

WARMINSTER.—An assistant with Mr. Henry Siminon, chemist and druggist, claimed exemption as being in a certified occupation. Exemption was, however, refused.

WEYBRIDGE.—On February 26, Mr. Wm. Henry Bull, director and secretary of Shirley Bros., Ltd., druggists' sundriesmen, Whitecross Works, London, S.E., applied for exemption on the ground that eight of the original managing staff have enlisted, which has thrown increased responsibility on those remaining. The Tribunal decided that they had no jurisdiction, and that the appeal must go before the Tribunal for the area in which the company's works are situated.

WINCHESTER. On February 26, a chemist on the panel was granted total exemption, and a chemist's assistant and managing optician was granted a temporary exemption for one month.

WOLVERHAMPTON.—On March 2, a chemist applied for exemption on the ground that he is engaged in Insurance dispensing, and that his partner is in ill-health. The Military Representative considered that two partners are not required, and that a qualified lady might be engaged. Three months' exemption was granted.

WOODBRIDGE.—A chemist's assistant applied for exemption on the ground that he is the sole support of his mother, and also has conscientious objection to war. His employer also claimed him as indispensable. Exemption was granted for two months.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C.,"

Report on the February Analytical Exercise.

THE powder distributed to students on February 8 contained two parts by weight of potassium oxalate, two parts of ammonium di-hydrogen phosphate, and one part of dehydrated sodium pyrophosphate. The calculated composition of such a mixture is:

K	...	...	...	...	17.0
NH ₄	...	...	...	...	6.3
Na	...	...	...	...	4.6
C ₂ O ₄	...	...	...	...	19.1
PO ₄	...	...	...	...	33.0
B ₄ O ₇	...	...	...	...	15.4
H	...	...	...	...	0.7
H ₂ O	...	...	...	...	3.9
					100.0

The powder also contained, as impurities, small quantities of aluminium and of silicic-acid radical, and recognisable traces of iron and of chlorine.

Samples of the powder were distributed to fifty-five students, and thirty reports were submitted in response. The failures in the detection of the main constituents were: (a) Metallic radicals: Potassium, 3; ammonium, 3; sodium, 2. (b) Acid radicals: Oxalic, 5; phosphoric, 1; boric, 7. Eight students failed to report the evolution of water on heating the powder in a dry test-tube.

This exercise, like that immediately preceding it, was a comparatively simple one, and the marks attained are again high as a rule. Dry-way and other preliminary tests, when carefully applied, and their results correctly interpreted, revealed nearly all the main constituents. All but a very small proportion of the powder dissolved readily in hot water, and dilute hydrochloric acid dissolved nearly the whole of the slight residue insoluble in water. Some students overlooked the fact that the aqueous solution was still slightly turbid, while others who observed this regarded solution as having been completed by the addition of hydrochloric acid. The very small residue insoluble in hydrochloric acid was all but unnoticed, and no correspondent succeeded in recognising, by aid of the microcosmic bead-test, its silicious nature; while the small portion insoluble in water but dissolved by hydrochloric acid, which presented itself again as aluminium phosphate on adding ammonium chloride and excess of ammonia as group reagents, caused a good deal of trouble and uncertainty among those who observed it. The presence of aluminium in this precipitate was very easily and quickly detected by means of the alizarin test, which, however, was only employed by a single student. The precipitate was variously reported as containing aluminium, calcium, or magnesium, but confirmation of the presence of either of the two latter metals could not be obtained. A remarkable circumstance is that several of the students who sent in the best reports on the whole did not observe this precipitate at all, while a number who observed it and dealt with it more or less effectively, failed to detect some of the main constituents of the powder whose detection did not require such attentive care.

The powder exhibited, on ignition, a slight darkening, which suggested either an oxalate or a very small proportion of some organic salt which turns black when heated. Several students suspected a citrate, but the application of special tests satisfied all but one that none was present, whereas proof of the presence of the oxalate was obtained in most cases with but little difficulty.

The sparing solubility of silver oxalate in dilute nitric acid caused, as usual, a number of mistakes, precipitates of silver oxalate being taken for silver chloride because they did not dissolve instantly on the addition of dilute nitric acid in comparatively small quantity. This is a perennial source of error.

Some of the failures to detect the boric-acid radical were due simply to the omission to apply any test for it, but this was not uniformly the case, since this radical was pronounced absent in a few instances after the application of special tests. It must be assumed that such tests were applied in a perfunctory manner, since the quantity present was considerable, and it afforded well-marked reactions.

It is unfortunate that some students, after a partially accurate account of the detection of some acid radicals, add to their reports some such statement as "all other acids

absent," instead of detailing how they tested for each acid radical or group of radicals. Such a statement is valueless, inasmuch as it supplies no data for judging whether the procedure adopted was satisfactory or otherwise; and in the not uncommon event of a student failing to report all the radicals really present it furnishes no clue to the cause of failure, and so leaves no room for suggestions for future guidance.

PRIZES.

The First Prize for the best analysis has been awarded to ANNIE R. BENZIE, c/o Watt, 32 Whitehall Place, Aberdeen.

The Second Prize has been awarded to G. H. MELLOR, 56 St. Giles' Road, Derby.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

A. R. Benzie (1st prize) ...	96	Un yn Trio ...	83
G. H. Mellor (2nd prize) ...	95	Ferrum ...	82
Calcium ...	94	Junora ...	81
Kainite ...	94	Spes ...	81
Kino ...	94	Belladonna ...	80
Neroli ...	94	Isonerism ...	79
Parex ...	94	Unqualified ...	79
Elswick ...	92	H. I. W. ...	77
F. Brindle ...	91	Yub-Dubs ...	74
Billy ...	91	Willsit ...	66
Nomen ...	91	Onyx ...	63
Atom ...	90	Altior ...	57
Pastuosa ...	90	J. J. W. ...	52
Osmium ...	85	Hyoseyamus ...	43
One & All ...	84		

2. Correspondent who is qualified:

Nitrox ...	97
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TO CORRESPONDENTS.

KAINITE.—The results of your borax-bead tests proclaim that the platinum wire was insufficiently cleansed after some previous test.

KINO, NEROLI, and Others.—Close observation should have revealed the evolution of gas-bubbles when the powder was heated with concentrated sulphuric acid, carbon monoxide and dioxide being produced by the decomposition of the oxalate.

ELSWICK.—We could not confirm the presence either of manganese or magnesium which you reported. It is unfortunate that you did not apply the alizarin test to confirm the aluminium: a very distinct reaction was easily obtained.

BILLY.—Note that the insolubility in cold dilute nitric acid and the solubility in ammonia of a white silver precipitate do not prove the presence of a chloride: silver cyanide exhibits similar solubility relations.

NOMEN.—Careful treatment of a considerable quantity of the powder failed to give confirmation of the presence of a sulphate which you and several other students reported. The indications seem to have been due to impurity in the sodium carbonate employed.

ATOM.—The reaction which you regarded as due to a chloride as a main constituent was really due to the oxalate, silver oxalate only dissolving with some difficulty in dilute nitric acid. Your confirmation of the trace of aluminium was quite satisfactory. We could not confirm calcium.

OSMIUM.—The neutral solution to be tested for acid radicals should have given a precipitate of ferric phosphate on the addition of ferric chloride, but you report "Nil." Perhaps the solution of ferric chloride was too strongly acid—a state of matters which is of very frequent occurrence. Your failure to find the boric-acid radical is difficult to understand, since you made a special test for it.

ONE & ALL.—Regarding sulphate and chloride as main constituents, see the replies to "Nomen" and "Atom," *ante*.

UN YN TRIO.—Read the last sentence of the reply to "Osmium."

FERRUM.—The strong and persistent yellow coloration imparted by the powder to the bunsen flame ought to have led you to report sodium.

JUNORA and UNQUALIFIED.—Careful examination did not yield evidence of the presence of any trace of arsenic.

SPES.—It is difficult to say just how much substance should be used for the systematic examination for metals, as the available supply must affect this in many cases. If we were ourselves dealing with the quantity of powder supplied to correspondents, we should employ about one-fourth of it, having allotted one-fourth for preliminary tests and one for acid radicals, and holding the remainder in reserve for accidents or other unforeseen contingencies.

ISOMERISM.—The chlorine freely evolved when the powder was heated with sulphuric acid and manganese dioxide must have been liberated from chloride present as impurity in the latter reagent.

H. I. W.—Your failure to detect the oxalate is remarkable, since the precipitate of calcium oxalate, insoluble in acetic acid, was readily producible. The decolorisation of the permanganate solution should have made you specially careful.

YUB-DUBS.—If you had applied any test for potassium it is unlikely that you would have failed to detect it.

WILLSIT.—We do not commend the tasting of unknown substances: it is a crude procedure, and it can furnish little information likely to be of use analytically.

ONYX.—Ammonium was readily proved present when tested for in an appropriate manner. Read the first reply above.

ALTIOR.—The precipitate which you supposed to be ferric benzoate consisted mainly of ferric phosphate.

J. J. W.—You state in your report that you confirmed the absence of a nitrate "by testing with $\text{Fe}_2(\text{SO}_4)_3$ and H_2SO_4 " and obtaining no brown ring. You never will obtain a brown ring if you employ ferric sulphate for this test: ferrous sulphate is the reagent required. Read also the reply to "Yub-Dubs."

HYOSEYAMUS.—Prepare a mixture for yourself resembling this exercise and practise upon it: you will learn a great deal by noting where and how you went astray.

THE ANALYTICAL TOURNAMENT.

It will interest our correspondents to learn the present state of the aggregate scores attained by the leading competitors in the current tournament. A considerable amount of highly meritorious work has been done, and of the students who have sent in reports in the four competitions now completed the following ten have obtained more than 300 marks each:

Elswick ...	384	Ferrum ...	351
Bennachie ...	366	Senex ...	346
Un yn Trio ...	366	Nitrox ...	346
Nomen ...	356	Osmium ...	320
Belladonna ...	354	H. I. W. ...	315

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Sunday, March 12.

Pharmacist Volunteer Training Corps, Millbank Schools, Erasmus Street, Westminster, S.W., at 10 A.M. Parade and route march.

Tuesday, March 14.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.

Wednesday, March 15.

Birmingham Pharmaceutical Association, Grand Hotel, at 8.30 P.M. Lieut. E. C. Bennison, R.A.M.C., on "Some Experiences in a Military Hospital."

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8.15 P.M. Mr. Jas. Tate, President of the Pharmaceutical Society of Ireland, will give an address on "Chemists, Wake Up!"

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, Church Street, at 9 P.M. Mr. Bernard Ellis on "Trade Unionism as Applied to Pharmacy."

Pharmacist Volunteer Training Corps, 17 Bloomsbury Square, London, W.C., at 3.15 P.M. Lecture on company drill. Programme to be repeated on Thursday.

Thursday, March 16.

The Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. The following papers will be communicated: "Molecular Association," by Mr. W. R. Innes; "The Influence of Iron Pyrites on the Oxidation of Coal," by Mr. T. J. Drakeley; "The Essential Oil of Cinnamonum Oliveri (Bail) or Brisbane Sassafras," by Mr. G. W. Hargreaves.

Western Pharmacists' Association, Restaurant Frascati, Oxford Street, London, W., at 8.30 P.M. Discussion on "The Trade Problem," opened by Mr. A. H. Jenkin.

PLAGUE TREATMENT.—According to the "War Cry," the Salvation Army in India uses tincture of iodine as the best means of combating plague. The tincture is taken internally as a preventive in doses of one or two drops daily.

English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Birmingham.

Burglars entered the premises of the Midland Dental Co. in Needless Alley, Birmingham, during the week-end and stole goods valued at about 1,000/.

Four thousand pairs of spectacles were prescribed at the Birmingham School Board Clinic last year. Did any of this work come to the chemist-optician?

The proposed Trades Fair under the Joint Committee of the Birmingham Municipality and the Chamber of Commerce has been postponed at the request of the President of the Board of Trade. The Committee are asked to keep the matter well before them until the time arrives for energetic action.

Liverpool.

R. & J. Herman make a feature of Atkinson's sandalwood soap at their Elliott Street Branch.

The Hon. Secretary of the Liverpool C.A. (Mr. D. H. Evans, of Lodge Lane) has recovered from his severe attack of influenza.

Signs are numerous that the recruiting of men in the wholesale trade has reached the limit. Some who have sought to join the Colours have been declined because on Government work.

Mr. T. Fell Abraham, as a trustee of the "Liverpool Guardian" Trade Protection Society, was present at its ninety-third annual meeting on March 7, when the Committee reported that never were accounts so easy of collection or insolvencies comparatively so few.

Manchester.

The cold winds and wintry weather of the last week have livened up trade somewhat, the demand for cough-remedies and hot-water bottles being greater than at any time this winter. Insurance prescriptions are also making a decided jump in numbers, due, no doubt, to the increased sickness.

An attractive window-show may be seen at present in a Market Street pharmacy. The window is draped from top to bottom in black, in the centre of the window is a sign-board on which appears in white lettering "The trade in German-made Eau de Cologne is dead. It is the duty of every patriotic Britisher to keep it dead." At the bottom of the window is a pint wicker-bottle of the German "Genuine" Cologne, with a ticket reading "This is our stock."

Sheffield.

Mr. John Evans, Ph.C., as President of the Welsh Society in Sheffield, on the eve of St. David's Day entertained the wounded Welsh soldiers who are receiving treatment in the local military hospital.

Mr. Ernest Preston, Ph.C., son of Mr. Job Preston, has undertaken temporary duties with the N.E. Midland Prescription-pricing Bureau, with one of his assistants, with a view to bringing the pricing up to date. The pricing arrangements are hardly likely to be satisfactory until a qualified chemist is appointed on the permanent staff.

Miscellaneous.

THE WELLCOME DRUG-FARM was described and illustrated in an article on "The Modern Physick Garden" in "The Field" for March 4.

DISPENSER'S SALARY.—The Southwark Borough Council have increased the salary of Mrs. M. M. Alexander, secretary and dispenser at their tuberculosis dispensary, from 100/ to 120/ per annum.

GUARDIANS AND DRUG-SUPPLIES.—The Louth Guardians on March 1 favourably considered a suggestion by the chemists of the town that a system of supplying drugs similar to that in vogue under the National Insurance Act should be adopted.

EAU DE COLOGNE AS A BEVERAGE.—A soldier charged at the Tower Bridge Police Court, London, on March 4 with drunkenness, said he got drunk by taking eau de Cologne. He added that many soldiers have taken to drinking eau de Cologne since the drink restrictions came into force.

THEFT CASE.—At Blackburn on March 7, Timothy Atkinson (34), chemist's porter, was charged with stealing a quantity of patent medicines and goods, value 1/ 13s. 4d., from the warehouse of Mr. Charles A. Critchley, chemist and druggist, King William Street. A fine of 40s. was imposed.

IMPERIAL INSTITUTE.—Professor Wyndham Dunstan, the Director, explained to the delegates of the Association of

Chambers of Commerce on March 2 some aspects of the work done by the Imperial Institute. He referred specifically to the manufacture of morphine from Indian opium, and the use of fustic for producing khaki dye.

POISONINGS.—Three deaths from poisoning have been reported since our last issue. A Marylebone veterinary surgeon committed suicide with prussic acid while suffering from depression.—The child of a Leyton labourer died in the London Hospital after eating bread upon which rat-poison had been spread. The verdict was death from misadventure.—A Grinstead doctor, named Collins, committed suicide during temporary insanity by means of morphine injection.

FIRE.—A fire occurred on March 4 on the premises of John Bell, Hills & Lucas, Ltd., wholesale druggists, Tower Bridge Road, London, S.E. The fire originated in an upper floor of the building, and a quantity of goods were burnt or damaged by fire and water. The Company informs us that the damage done was so small that work was resumed as usual on March 6.—On March 7, a fire broke out in the printing-works of Suttley & Silverlock, Ltd., 92 Blackfriars Road, London, S.E., and severely damaged the foundry and stockrooms at the back of the building, but business can still be carried on.

LIGHTING REGULATIONS.—At Ilkeston on March 2, Mr. Frederick Blomfield, wholesale druggist, White Lion Square, was ordered to pay 10s. for a breach of the lighting regulations.—At Crewe Police Court on March 2, Mr. John Cumming, chemist and druggist, Victoria Street, was fined 1/ for a breach of the lighting restriction order. It was stated that the assistant had been cautioned about the lighting. Defendant said he had no desire to disobey the order, but wanted some guidance as to what he might do, as there is a great divergence in the intensity of the lighting in the town.

CONTRACTS.—The Wandsworth Board of Guardians have decided not to advertise for tenders for the supply of drugs, surgical instruments, and medical and dispensary sundries for the next six months, but to ask firms to quote discounts on monthly price-lists. It was also agreed to allow the claim, amounting to 3/ 6s. 8d., of S. Maw, Son & Sons, as an extra on their account of 103/ 11s. for the supply of medical sundries during the December quarter.—The Newport Board of Guardians have accepted the tender of Messrs. Burgoyne, Burdidges & Co., London, for drugs for three months, and that of Albert Burton, Ltd., for surgical dressings for six months.

DRUG-THEFT CHARGE.—On March 2, a convict named Smith, or Mumford, was charged at the Guildhall, London, with having stolen four cases of drugs, etc., valued at 195/., the property of Van Oppen, Ltd., Bartholomew Close, E.C. Prisoner made an offer to give information regarding other goods which he had delivered at a wrong address. He was committed for trial.—The case came on at the Central Criminal Court, on March 7, when Mumford, who was brought up in custody of warders from Wormwood Scrubs Prison, where he is undergoing a term of penal servitude, pleaded guilty, and was sentenced to five years' penal servitude, the sentence to run concurrently with the one he is now serving.

A SHOWCASE COLLAPSE.—At the Brighton County Court on March 6, Jones & Low, chemists, Southwick, sued F. Carwardine, Ltd., Mortimer Road, Hove, for 22/ 1s. for alleged negligent work, and Mr. D. F. Jones himself sued for 20/ for personal injury. Plaintiffs had a large glass showcase erected at a branch shop at 17 East Street, Shoreham, in July 1915. Some time later Mr. Jones, one of the partners, was dressing the case when it collapsed and fell on the top of him, and he sustained considerable injury from the broken glass. For the defence it was stated that the showcase was not to be erected by the defendants, but only delivered. It was originally priced at 27/., but reduced to 23/ as plaintiff then said he had some workmen engaged in the shop, and he would get them to put it up. His Honour reserved judgment.

WINE-LICENCE.—At Newport (Mon.) Adjoined Licensing Sessions, on March 2, Mr. Alfred Gratte, chemist and druggist, President of the local Association, applied for a licence to sell medicated wines by retail off the premises at his shops, 55 Commercial Road and 216 Stow Hill. The Bench refused both applications.—The Swansea Licensing Bench on March 1 refused an application for a medicated-wine licence made by Mr. S. W. Davies, chemist and druggist, 48 High Street, Gorseinon.—At the Preston County Police Court on March 6, Mr. Edmund Topping, chemist and druggist, of Berry Lane, Longridge, was granted a wine-licence on condition that he only sold medicated wines.

Irish News.

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Brevities.

Mr. C. McMullan, analyst, Belfast, has declined the offer of 15*l.* per annum made to him by the Omagh Board of Guardians as drug analyst. He demands 20*l.* per annum. The same analyst has written to the Lisburn Guardians to say that nothing less than 30*l.* a year will adequately remunerate him for the analytical work the Guardians require.

Mr. Samuel Gibson, J.P., will represent the Chemists' and Druggists' Society of Ireland on the Council of the Belfast Chamber of Commerce during the ensuing year. The Wholesale Druggists' Section has nominated Mr. Thos. Scott, J.P., as Chairman, and Mr. E. W. Pim, J.P., as representative on the Council. Mr. Geo. Wilson (Wilson, Jordan & Alexander, Ltd.) has been elected a member of the Chamber.

The Local Government Board have issued a circular to Boards of Guardians intimating that a large number of drugs, as well as surgical appliances, are now greatly enhanced in price, and on that ground, and also having regard to the general financial pressure, Boards of Guardians are requested to exercise the strictest care and supervision over the medical expense for the coming year. In another circular it is stated that in the lists for the coming year they have been obliged to omit about a dozen items, as some of them are not now procurable and the remainder can only be obtained at prohibitive prices.

Scottish News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

Edinburgh.

Dr. J. Laidlaw Ewing and Bailie Inman are members of the local Military Tribunal.

The latest price for cod-liver oil is 1*s.* 6*d.* per 6-oz. bottle. Extract of malt and malt with oil are being sold mostly at from 25 per cent. to 33 per cent. above their respective pre-war rates. Sticks of liquorice, formerly cut to 3½*d.* in some places, are now retailing at 5*d.* and 6*d.* Cascara tablets, once sold at a ridiculously low rate, are up considerably, too, the wholesale price having doubled meantime.

In Edinburgh Sheriff Summary Court on March 6, Mr. Hugh L. Alexander, chemist and druggist, 64 Lauriston Place, Edinburgh, and Mr. William S. Bell, branch manager, Boots, Ltd., 16 Nicolson Street, Edinburgh, were fined for a breach of the Lighting Order. One of the defendants said that he could hardly see to dispense, while the other remarked that he could only see because he was accustomed to the place.

Considerable difficulty is being experienced in Edinburgh in dealing with the applications of large and small firms for the exemption from military service of certain members of their staffs; these firms also intend when the time comes to appeal for certain married members of their staffs as well. It has been suggested that matters would be greatly simplified if firms prepared a statement of their exact staff, the minimum number on which they could conduct their business, making allowance for the possibility of introducing female labour, and be prepared to state definitely the number of men they are willing to allow to go without appeal in the various groups and the number they feel compelled to try to retain.

Glasgow.

Students preparing for the April examination will find in the Botanic Gardens many practical demonstrations of the process of plant-budding.

The new lighting regulations are having the effect of bringing about earlier closing of chemists' shops. Quite a number of districts have already agreed to make the closing-hour 8 P.M., the latest to fall into line on this matter being Charing Cross, Langside, Shawlands, Mount Florida, and Cathcart. The closing order which is being petitioned for by the Glasgow and West of Scotland Chemists' Association requests that the closing-hour be 8.30, but history is being made so rapidly at present that it is not improbable that the earlier hour may yet be substituted.

French News.

(From the "C. & D." Paris Correspondent.)

SOLDIERS' AID FUND.—The name of Estes & Sons, New York, figures on the list of subscribers to the National Soldiers' Aid Committee (Pharmacie Centrale de France list).

PROFESSOR MITCHNIKOFF is lying seriously ill at the Institut Pasteur, where he took up his abode a short while ago so as to avoid the daily journey from Sèvres, where he generally resides. He is suffering from pleurisy and pneumonia.

THE ROLL OF HONOUR.—Dr. G. Dorléans, who died recently at Paris from a malady contracted during the war, was before hostilities broke out head of the Biological-test Laboratory at the Pharmacie Centrale de France. He is the twentieth employe of this establishment to be inscribed on the Roll of Honour.

MAGNESIUM-HYPOCHLORITE SOLUTION as an antiseptic wound-dressing is better than sodium or calcium hypochlorite solutions, claims Charles Mayer. The solution is made by causing 190 grams of magnesium sulphate, first dissolved in 2 litres of water, to act on 100 grams of calcium chloride, also dissolved in 2 litres of water, then filtering out the precipitate of calcium sulphate. To get a clear solution care must be taken to let the liquid stand until the precipitate is entirely deposited; then decant. Magnesium hypochlorite has an antiseptic potency slightly less than Labarraque's solution (chlorinated soda).

PARIS SOCIETY OF PHARMACY.—The President for 1916 of the Paris Society of Pharmacy, M. Henri Charles Cousin, is head of the Practical Chemistry Laboratory at the Paris School of Pharmacy. He is fifty-two years of age, having been born at Chaumont (Haute-Marne) in June 1863. After taking his B.Sc. degree in 1880, he commenced his pharmaceutical studies, and, like so many pharmacist students from the provinces, became (in 1885) house-pharmacist in a Parisian hospital. He took prizes in the annual competition open to such "internes," and also the gold medal of the Society of Pharmacy in 1886. In 1889 he was appointed head pharmacist of a Parisian hospital, and still holds a similar post, being now at the Hôpital Cochin, at no great distance from the School. In 1894 he entered the Paris School as preparator, became *sous-chef* after five years' service, and finally head of the Practical Chemistry Laboratory in 1904.

WAR PHARMACY.—The Central Military Pharmacy at the Invalides, Paris, has been since the war a scene of constant activity. Certain products are turned out by the ton, and 30,000 bandages are sent out daily. The medications, etc., in stock would, it is calculated, require three or four hundred railway-trucks to remove. All the "compressed" (tablet) remedies, all ampoules and "individual bandages" (the first-aid packet carried by every soldier in the field) are here produced, besides the usual arsenal of pharmaceuticals—tinctures, extracts, ointments, etc. Besides the essential portability of the tablet form of medication, it presents the advantage, from the army point of view, of enabling weights and scales, etc., to be dispensed with, and thus saving much time and trouble in ambulances. Antipyrin, aspirin, quinine, and potassium iodide are put up in 50-centigram tablets, as well as potassium bromide and sodium benzoate. The opium tablet of 5 centigrams is standardised to contain 1 centigram of morphine. Mechanical mixers for mercury ointment and a chloroform-purifying apparatus are close by. Extracts are made *in vacuo* at 70° C. Cinchona, belladonna, and opium extracts are thus prepared at the rate of 6 cwt. per diem. Thousands of clinical thermometers—an article formerly imported from Germany, but now from America—are being examined by a mobilised man. The ampoule laboratory is an important one. The glass is bought, but all ampoules are filled and sealed here. They are of various sizes, and are packed in card boxes by dozens, and labelled red for potent drugs, green when supervision is recommended, white for those which can be used in the surgeon's absence. In the surgical workshop catgut and silk ligatures, etc., are received, examined, and sent out; these are supplied by manufacturers. Surgical dressings keep several workshops busy; cotton-wool and gauze arrive in 5-ft. widths, are cut up by machines, and passed on to the workwomen. Bandages are sterilised for forty-five minutes at 120° C. The journal "La Nature," which publishes these details, gives several illustrations of the work carried on at the Central Military Pharmacy.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Cape Province.

CHEMIST'S VISITOR.—In the course of a prosecution at Krugersdorp of a man named Herbst, who was charged with assaulting and robbing a man named Grady, Mr. Louis Vorster, an assistant with Adcock, Ltd., gave evidence. Witness said that a man called and wished to purchase chloroform, but it was not supplied. He was not able to identify prisoner. The detective who arrested accused said the latter volunteered a statement that he was with a man who purchased chloroform at Adcock's.

Transvaal.

CHEMIST PROSECUTED.—At the Amerfoort Court, on January 28, Mr. Jooste, A.R.M., on the Bench, Mr. Thomas Hannah was charged with contravening Section 39 of the Medical and Dental Ordinance. Mr. Hannah conducted his own defence, his speech occupying two and three-quarter hours. He was found guilty and fined 30*l.*, or one month's imprisonment.

Cape Province Pharmaceutical Society.

THE ANNUAL GENERAL MEETING of the Society was held at the South African Mutual Building, Darling Street, Cape Town, on February 10. There was a very fair attendance, among those present being Mr. J. Sloan (President), Messrs. G. R. Cleghorn and J. Dell (Vice-Presidents), Councillors D. K. Petersen, Dr. Froembling, Hill, Aitken, Edmeades, Sowden, and Austen Thomas, Messrs. F. Mathew, Alexander, Gardner, Hopkins, W. S. Cherry, Merry, Asher, J. Scott (Petersen, Ltd.), Pirie, and Davidson. The *Secretary's Report*, which was adopted, stated that there were 105 members. There had been five resignations during the year, but eleven new members and seven associates have joined. Now that the Society has moved into new premises he looked forward to an increased attendance at the meetings. The *Treasurer's Report* mentioned that there is this year a larger sum in arrears for subscriptions. Owing to exceptional expenditure incurred by the purchase of new furniture, there are carried forward liabilities amounting to 13*l.* 4*s.* There is a guarantee fund for the increased rent of the new premises. The report was adopted. The President then delivered his valedictory address, in which he reviewed the work of the past year. The unsatisfactory state in which the Shop Hours Act is placed by evasion will, it is hoped, be met by an amendment Bill when the Provincial Council meets. Several alterations have been proposed in the draft Medical and Pharmacy Bill which was sent to the Society for suggestions. The Council had had an opportunity of conferring with Professor Wilkinson, of the Transvaal School of Mines, regarding the education and training of apprentices. He suggests that the following provisions should be made in any proposed Pharmacy Bill:

- (1) All apprentices to be properly indentured and registered on indenture with the Pharmacy Board.
- (2) No apprentice to be indentured unless he has passed the Entrance examination.
- (3) Sufficient time to be allowed for study and lectures, to be laid down in the indentures. With regard to the Qualifying examination, he is in favour of this being split up into two parts—one to be taken at the end of two years' apprenticeship and the final, in such subjects as pharmacy and materia medica, at the finish of the apprenticeship.

The President suggested that a meeting of the trade should be held to discuss this question. Reference was also made to the improvement in the Society's meeting-place, which he hoped the members would appreciate by paying their subscriptions promptly. Allusion was also made to the lecture on the romance of medicine which Mr. Ferguson delivered before the Society, and to the response which members had made to the call of the Empire for soldiers. The report of the School was also given. The President was thanked for his address. The result of the *Election of Councillors* was then announced. Twenty-seven voting-papers were returned, and the following were elected as Councillors for the year 1916-17: Messrs. Aitken, Cleghorn, Dell, Edmeades, Ferguson, Dr. Froembling, Hill, D. K. Petersen, Petrie, Sloan, Sowden, and Austen Thomas. Some discussion took place with regard to the additional cost of THE CHEMIST AND DRUGGIST, and it was ultimately agreed that a circular should be sent to all the members, explaining

that if they desire to continue to receive the C. & D. after May next, the amount of 2*s.* 6*d.* should be added to the annual subscription. The advance in the *Prices of Proprietary Goods* was discussed with the object of some definite action being taken to regulate retail prices. At present some chemists are selling patents at pre-war prices, while the wholesale cost has advanced to such an extent that to sell at the old prices leaves no margin of profit. It was decided to call a special meeting to go into the matter.—A Council-meeting was held afterwards for the election of officers. Mr. W. Aitken was unanimously elected *President*. Mr. H. Ferguson was elected *Hon. Secretary*, and Mr. Edmeades undertook the duty of *Hon. Treasurer* for the third year in succession. The President and Hon. Secretary, together with Messrs. G. R. Cleghorn and Dell, were elected to the Committee of the Benevolent Fund.

Italian News.

OIL NUTRIMENT.—It is questionable whether cod-liver oil will ever to any great extent supersede the use of olive oil—natural oil—as a general reconstituent for children or the feeble. Scott's Emulsion was the first introduced to Italy, and it enjoys a popularity among some classes, while other people plump for the oil of the country.

POPPY-GROWING.—Italy, like France, has been forced to experiment in the growing of opium poppies, and the experiment has yielded very satisfactory results. The juice has been found to contain 11.30 per cent. of morphine, against the best French average of 13.90. The Forestry Department has taken over this matter, and recommendations will shortly be published.

PHARMACY-LAW DIFFICULTIES.—When is a pharmacy not a pharmacy? is exercising the minds of those pharmacists who are serving on the fighting front. It seems that by latest law the moment the titular head leaves the pharmacy at that moment it ceases to be a pharmacy. The presence of a qualified or unqualified person left in charge in no way affects this conclusion, though it may affect the amount of the penalty imposed.

FOOD FOR SOLDIERS.—Scientific investigation has proved that the Italian soldier has been getting too large a ration of meat in proportion to his farinaceous and leguminous food and his wine allowance. The dietary is now being altered to one nearer that of the French soldier with, however, an allowance for the higher and colder altitudes in which the military operations are being carried on. It is calculated that 3,900 calories are needed, against 3,200 for the French.

ARMY PHARMACISTS.—Despite the fact that many pharmacists have been released from military service, the War Office course of instruction for pharmacists still goes on. In the Service it is degrees and ability, not seniority, that settles the rank. The chief requisite is the rapid preparation or improvisation of medical and surgical supplies which are not to hand or immediately procurable. This calls for initiative and activity, and is a complete change from the work of everyday pharmacy.

FACILITATING CHEMICAL-MANUFACTURE.—The Under-Secretary of State for Finance has intimated that in order to assist in every way Italian chemical activity, the usual Customs taxes will be much reduced on commercial and pure benzol, on sugar required for the manufacture of acetone or oxalic acid, and on tea required for manufacture of caffeine. The concessions are sure to be much appreciated by chemists, who are endeavouring to resuscitate chemical manufactures in the country.

PRICE-REGULATION WANTED.—The Government has been asked to put an end to speculation in drugs and chemicals, which has in many cases raised prices far beyond what is necessary or reasonable. The Government is also urged to regulate, by means of the State laboratories, the central military pharmacies, and, if need be, private producers, the sale of home-made and imported drugs and chemicals, so that inflated prices may be done away with. So far the Government has not replied to this request.

SAVING DRUGS.—Many of the higher-priced drugs and chemicals have been deleted from the "Formulary of the Poor" and from Poor-law contracts, the place of these being taken by what medical men have suggested to be therapeutically efficient substitutes at normal prices. Doctors have been requested to note these substitutes and to avoid ordering for poor people drugs which can only be obtained at enhanced prices. Pharmacists are also asked to remind such doctors as prove forgetful in this respect.

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of eight Chemists' Societies in Australia and New Zealand.

New South Wales.

THE VACANCIES caused by the resignation of Mr. Carroll from the Pharmacy Board and the Council of the Pharmaceutical Society have been filled by Mr. Frank Lloyd and Mr. James Dixon respectively.

PHARMACY BOARD.—Following the conviction of a chemist named Perry for indecent advertising, the Pharmacy Board has recommended the Governor to order the removal of Perry's name from the Register of Pharmacists.

THE QUALITY OF ETHER.—There have been some unsatisfactory samples of ether in use in New South Wales, and some deaths which occurred in Sydney from the use of a certain batch of ether are thought to be due to an impurity, whose presence was suspected on account of the coughing which was caused in the patients upon whom the ether was used.

MISLEADING STATEMENTS.—The Ozonia Proprietary Co. was recently fined 20*l.*, and 6*s.* costs, for making misleading statements regarding the curative effects of Ozonia, which the Government analyst certified to consist of water 99.7651, alkaline bromide 0.015, ferrous salt 0.0049, phenol 0.2, alkaline iodide 0.015. The New South Wales Health Department, who prosecuted, denied that the mixture had any medicinal value whatever.

New Zealand.

BOTTLES RECEIVED FROM JAPAN for dispensing are of very good quality, states "The Chemist and Druggist of Australasia," being of clear, white glass, with accurate measurement, and beautifully packed. The method of packing ensures excellent delivery. Every pair of bottles is wrapped in some very tough fibre or grass material, longways, and the wrapping makes each pair a complete unit. The total number is then packed into a very solid case, and so arrives in good condition. In fact, the packing is so well done that it is quite a process to unwrap and unpack the cases. The prices of dispensing-bottles are very reasonable, and at present are much below those of the English bottles received, especially when the packing and small percentage of breakages are taken into consideration. A very large business with Japan in this line may be expected.

Queensland.

COPRA.—Coconut-cultivation, though still a small industry in Queensland, is rapidly extending. Hitherto it had been supposed that copra from Queensland coconuts did not contain enough oil to be of commercial value, but the examination of a sample of copra from these nuts at the Imperial Institute has now established that the oil-content is normal and the copra of good quality; brokers state that shipments would be readily saleable in Europe at good prices. It is interesting to note that before the war the bulk of the copra shipped to Europe from Ceylon, India, and elsewhere was crushed in Germany and France. Urgent representations on this subject were made by the Imperial Institute, on the outbreak of war, to the oilseed-crushing firms in the United Kingdom, some of whom have now started to work copra, with the result that there is now a good market in this country, which is likely to expand when the new factories now building start work.

South Australia.

PHARMACEUTICAL SOCIETY.—A special meeting of the Council was held to appoint an Honorary Captain in A.A.M.C. in accordance with the Government Order published on December 20. As Mr. R. O. Fox was already doing active work as an Honorary Lieutenant, and was senior on A.A.M.C. Reserve, the Council unanimously decided to recommend that gentleman for the position. All the members of the Council have joined the Reserve, and at least a dozen, especially from the younger generation of pharmacists, are likely to join.

Victoria.

THE AUSTRALIAN GLASS MANUFACTURERS' CO., LTD., has been registered, with a capital of 500,000*l.*, in 1*l.* shares, to acquire the business of the Melbourne Glass-bottle Works Co., Ltd., Waterloo Glass-bottle Works, Ltd., and Vance & Ross Prop., Ltd., New South Wales. The subscribers for one share each are: Edward Norton Grimwade, John Grice, Wilfrid Russell Grimwade, William McNeillage (managing director), and Stanley George Garnsworthy (secretary). The directors are E. N. Grimwade, J. Grice, W. McNeillage, Harold William Grimwade, and Mark Sheldon.

German News.

CORKS have considerably advanced in price in Germany in consequence of increasing scarcity. Importation from Spain *via* Switzerland has become very difficult. The advance varies from 20 to 30 per cent.; for some qualities it amounts to 50 per cent.

EXPORTS TO SWITZERLAND.—The Government allows the exportation of the following chemicals to Switzerland, provided that they are not used for the manufacture of aniline dyes: Caustic potash, hydrochloric acid, naphthalene, formaldehyde, hydroquinone, sodium sulphide, acetic anhydride, sodium acetate, salicylic acid, and acetylsalicylic acid.

FAT-FAMINE.—The consumption of butter and other fats, it is ordered, must be further reduced considerably. According to a new decree of the Imperial Chancellor the average maximum quantity of butter that is accorded to grown-up persons will in future be 125 grams weekly; butter and margarine may be consumed by one person to a maximum quantity of 180 grams per week together, and the total quantity of fats of all kinds that is allowed to grown-up persons is 250 grams weekly. Children under fourteen years are only allowed half these quantities of fats.

ALCOHOL.—The Spirit Centrale informs its members by circular that, owing to the reduced production of spirit in Central, West, and South Germany, the output, in spite of the large production in East Germany, has not come up to expectations. As conditions in the potato-market give rise to the anxiety that the distillers will not receive the quantities of potatoes originally arranged for, the Committee of the Syndicate have decided to ask that other raw materials than potatoes be allowed. The Committee also decided to increase the "Abschlagspreis" from February 14 from 62*m.* to 65*m.*

THE WOLF AND THE LAMBS.—On January 29 a conference was held in Berlin between representatives of various branches of industry regarding the possibility of promoting commercial intercourse between Germany and its Allies after the war. Since October 1915 there have been a hundred new members added to the "Handelsvertragsverein," such as the Association of Manufacturers of Resinous Products (Laubenheim a.M.), the Association of Pharmaceutical Manufacturers (Hamburg), the Association of Bavarian Spirit and Liqueur Manufacturers (Munich), the Association of Gelatin-manufacturers (Ziegelhausen, near Heidelberg), and the Association of German Vinegar-manufacturers (Lübeck).

BLACKMAILING NEUTRALS.—The following is a translation of the circular which has been sent by the German chemical-manufacturers to their customers in neutral countries:

The difficulties with which we meet in obtaining the raw material for the pharmaceutical-chemical industry, and the increase of the expenses of manufacture, oblige us to take special measures with regard to the prices of chemical and pharmaceutical products that are sent to foreign countries. For this purpose the Exportation Committee of the chemico-pharmaceutical industry, 3 Sigismundstrasse, Berlin, W., has been formed, with the approval of the Government, consisting of representatives of manufacturers and wholesale dealers, for the purpose of fixing minimum prices under which pharmaceutical preparations and drugs may not be exported. Beginning with February 1, permission for exportation of these goods is only granted to those who apply for it and bind themselves not to sell under these prices. Permission for exportation is in general only granted for quantities which do not surpass the quantities exported during the last months before the outbreak of war, especially during the last nineteen months from January 1, 1913, to July 31, 1914. Firms who desire to export goods of this kind are invited to ask the Export Committee for further information about minimum prices and conditions of sale. In regard to payment of accounts, the following stipulations have been made: For Holland the prices must be calculated in florins, for Sweden, Norway, and Denmark in crowns, for Roumania, Spain and Portugal, Switzerland, and Greece in francs, for Luxembourg, Austria-Hungary, Turkey, Bulgaria, and the parts of Belgium, Montenegro, Serbia, and Russia that are occupied by Germans in marks. The notes, in which the amount must be filled in foreign values, must be arranged as follows: Der Rechnungsbetrag ist in (Landeswährung einsetzen) bei einem Bankinstitut in (Bestimmungsländ einsetzen) einzuzahlen oder in (Landeswährung) zu remittieren." The firms who ask for permission for exportation must bind themselves to comply with the prices and conditions that have been fixed by the Exportation Committee, and they are obliged to submit to control by the Committee. In case this is refused permission for exportation cannot be granted.

The circular is signed by the "Zentralstelle für Ausfuhrbewilligungen für die chemische Industrie." For several articles the advance of the price amounts to 300 per cent., for other articles even to 500 per cent.

Trade Notes.

TERPINEOL is offered in this issue by the Societa Profumi Sintetici, Naples-Poggioreale, Italy.

NASAL SYRINGES.—Vulcanite and glass nasal syringes are the features of Maw's page this week.

SUGAR OF MILK.—The "Sowalt" brand of sugar of milk is advertised in this issue by Nalborough & Sons, Ltd., Hatwich.

MIXING-MACHINE.—A new patent mixing-machine is illustrated in this number by W. Rowlandson & Co., Boundary Street, Liverpool.

PARAFFINS AND LANOLINES.—Samples and quotations are offered to wholesale buyers by Bartoline (Hull), Ltd., 2 Myton Place, Hull.

HONEY.—Various brands of honey—"Joybells," "Summerland," and "Sweet Flower Bell"—are advertised in this issue by the Standard Health Food Co., Reading.

EXTIRMO for killing rats, mice, and beetles does not contain a poison in Part I. of the Poison Schedule. See the advertisement of Extirmo, Ltd., Hull, in this issue.

CONFIDENCE.—This is the subject of No. 1 of a series of personal chats on salesmanship which Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, London, E.C., commence in this number.

TOILET-SOAPS.—There is room to develop the trade in high-class toilet and medicated soap, and on this account the original offer made by Charles Midgley, Ltd., 4 Exchange Street, Manchester, should be considered.

TRENCH-PILLOWS.—Lloyd's, 60 Tennyson Road, Small Heath, Birmingham, show what can be done with a window-display of trench-pillows. These are air-pillows of Japanese manufacture, which are eagerly bought by the troops.

TINKER'S DOG-MIXTURE.—The retail prices have been advanced to 1s. 3d. and 2s., and the prices to chemists are now 12s. and 18s. 6d. per dozen. The maker is Mr. Henry Tinker, chemist and druggist, The Heights, Manchester.

RUBWEL OINTMENT.—The new prices of Rubwel Ointment are given in this issue. Particulars as to window-show orders can be had by applying to the Rubwel Co., Seedley Road, Pendleton, Manchester, or Roche, Tompsitt & Co., 4 Red Cross Street, London, E.C.

CHYMOL.—The Chymol Co., Ltd., Atlantic House, Holborn Viaduct, London, E.C., are starting an advertising campaign, a feature of which is that coupons will be attached to the advertisements, enabling the customer to obtain a rebate of 6d. on the purchase price of chymol. The conditions given on the coupons should be read carefully and preparation made for the increased demand for chymol.

SALASPIN.—Thomas Kerfoot & Co., manufacturing chemists, Bardsley Vale Mills, Bardsley, Lancashire, who are well known for their salaspin tablets, inform us that the acetylsalicylic acid used in these is made in their laboratories at Bardsley Vale. The difficulties in the manufacture of acetylsalicylic acid have been successfully overcome, and the product, which we have examined, gives no indication of free salicylic acid, thus satisfying the requirements of the British Pharmacopoeia. Each of the tablets has an inscription, "Salaspin, 5 gr.," which is a great convenience in cases where the tablets become divorced from the package in which they are sent out.

INTRAMINE.—The British Drug Houses, Ltd., 22 to 30 Graham Street, City Road, London, N., send us a sample of intramine, the new remedy for syphilis, which is being made on the suggestion of Mr. J. E. R. McDonagh, F.R.C.S. In a recent number of "The Lancet" Mr. McDonagh described the new remedy as follows:

Intramine is a pale-yellow crystalline body, insoluble in water, but soluble in ether, alcohol, and acetone. It is best put up as an emulsion in olive oil, in which it is suitable for intramuscular administration. A lecithin-absorption compound of intramine can be prepared for intravenous administration. Ehrlich found that the *dosis tolerata* of salvarsan for rabbits was 0.1 gram per kilo. Therefore, when I say that several times that amount of intramine can be injected into a rabbit weighing only 85 grams, it will be clear that intramine is an absolutely non-toxic substance. The biggest single dose I have given to a human being is 12 grams without any untoward symptoms arising; 3 grams can be injected every third day with impunity. When compared with salvarsan, I found that in the primary and generalisation stages salvarsan was superior to intramine, but that in the recurrent stages the opposite was the case.

The British Drug Houses, Ltd., pack the remedy in ampoules containing 10 c.c. of liquid, equal to 1 gram of intramine, this being the dose for an adult. The ampoules cost 7s. 6d. each. Now that doubts are being cast on the

efficacy of salvarsan, it is a good opportunity to bring intramine to the notice of medical men.

P. D. & Co.'s List.—Parke, Davis & Co., manufacturing chemists Beak Street, Regent Street, London, W., have issued an emergency edition of their price-list. It is explained that the large number of alterations in price and of additions to the list has made it necessary to issue this edition, though the list itself must be regarded as more or less temporary in character. Complete sections are now devoted to "Glaseptic" ampoules, and to rectal and vaginal suppositories, while an entirely new series of machine-made gelatin capsules has been introduced. These capsules are already, we are informed, extremely popular. New glandular products have been added in the form of tablets of the anterior and posterior lobes of the pituitary gland, parathyroid gland, and pineal gland, and a number of new tablet combinations.

Prescription Problem.

THE exercise set in this section in the *C. & D.*, January 15, p. 52, met with a good response, but has brought us up against a sharp division of opinion. The doctor who wrote the prescription states that it reads as follows:

Tr. Opii mijj
Syr. zingib.
Aq. menth. pip 3ij
Tr. nuc. vom.
Sod. salie. 3j
Glycerin 3j
Sp. amm. arom. 3ij
Inf. gent. ad 3vj

3ss ter die.

It will be noted that no quantities are given for two of the ingredients, and if the doctor's version of his prescription be compared with the reproduction given in our issue of January 15, it will be seen that, although curiously constructed, the transcription is feasible. On the other hand, all the competitors who sent us postcards have read the prescription as ordering a draught and a mixture. Some of the renderings of the second item are somewhat fantastic, but it must be confessed the handwriting of the ingredient leaves considerable play for the imagination. In the circumstances, therefore, we are unable to award any prizes this time.

The following facsimile prescription forms the subject of the next competition. Postcard solutions should be sent not later than March 18. Prizes will be awarded at the discretion of the Editor, and in case of close competition the time of posting will be taken into account.

LABORATORY EQUIPMENT.—The "Boletin" of January 14 publishes a decree authorising the Argentine Department of Hygiene to arrange for the purchase from abroad of laboratory materials for the new Bacteriological Institute at Buenos Aires at a total cost of 44,859 pesos currency (about 3,900l.).

Legal Reports.

Trade Law.

Prize Court.—On March 2, in the Naval Prize Court, a cargo of 50 tons of aluminium seized on a Swedish vessel was ordered to be condemned in favour of the Crown. Some of the bars were marked "Gothenburg," but Professor Herbert Jackson, King's College, by the action of solvents, was able to show that the word "Gothenburg" had been painted over the name "Hamburg."

Trade-mark Registration.—In the Court of Appeal on March 1, it was decided that the spelling backwards of the word "Cording" could not be registered as a trade-mark. There are two companies of the name of Cording, and the Master of the Rolls said the attempt to register the word "Gnidroc" was a move on the part of one of the companies to secure the advantage of the name Cording.

Chemist Sued for Slander.—In the King's Bench Division on March 8, before Mr. Justice Shearman and a common jury, Miss Florence Dorothy Ricketts, a nurse-maid, of Willesden Green, through her next friend, sued Mr. Frederick Davis, chemist and druggist, Daws Lane, Mill Hill, for damages for an alleged slander. Defendant denied the allegations, stating that the words uttered were true and were spoken without malice. Mr. Watts, for the plaintiff, stated that Miss Ricketts was formerly employed at Mill Hill, and was sent on a shopping errand by her mistress. As she was passing defendant's shop Mr. Davis rushed out and accused her of taking a looking-glass and a packet of shampoo-powder, and called her a wicked thief. Subsequently defendant again accosted the girl in the street and asked her to give him back his property. He said, "If you don't pay me 2s. 2d. I shall give you in charge." Rather than have any trouble the plaintiff paid him 2s. 2d. On returning home plaintiff made a complaint to her mistress, and eventually her employer saw defendant, who repeated his allegations against the girl. Plaintiff denied having ever been to defendant's shop. Defendant stated that while there was no one in the pharmacy plaintiff entered and took the mirror and shampoo-powder from the counter. Witness was in the passage, taking off his coat, at the time. Witness followed the girl to the street. By the time he got to the bottom of the steps plaintiff was packing the articles underneath the baby in a perambulator. When he questioned the plaintiff she said, "Oh, my God! I shall get locked up. How much are they?" Witness told her that the value of the articles was 2s. 2d., and she paid the money. The actual theft was also seen by his wife, who was an invalid and unable to attend the Court. The jury disagreed and were discharged.

"Ogee" Trade-mark.—The Court of Appeal, composed of the Master of the Rolls and Lords Justices Phillimore and Warrington, on March 9, delivered judgment in the appeal of the Registrar of Trade-marks from the judgment of Mr. Justice Sargant in the Chancery Division, reversing his order refusing to allow the respondent, Mr. Thomas William Garratt, who trades as Osborne, Garratt & Co., Frith Street, London, to register in respect of hair-frames, hair-transformers, combs for the hair, razor-strops, and paste the word "Ogee," which the Registrar said was simply the letters "O G" spelt out. Mr. Justice Sargant, however, held that the word "Ogee," which is a well-known dictionary word as applied in architecture, was registrable as a trade-mark, and directed the Registrar to proceed with the registration upon Mr. Garratt, through his counsel, disclaiming any right to the exclusive use of the letters "O" and "G." From this decision the Registrar of Trade-marks now appealed. (The case was reported in the *C. & D.*, December 11, 1915, p. 41, and February 26, p. 45.) The Master of the Rolls, in the course of his judgment, said the real question the Court had to consider was whether the Registrar of Trade-marks had a discretion conferred upon him by the Act to accept or refuse registration of a trade-mark. Subject to the limitation imposed by Section 17 the Registrar had a discretion either to refuse or to accept a mark of registration. The Registrar must, of course, not exercise his discretion capriciously, but he clearly had a discretion to exercise when he thought it was reasonably clear that deception might arise from the registration of the mark. He saw no reason for holding, as Mr. Justice Sargant had done, that the Registrar had misdirected himself. In his opinion Mr. Justice Sargant was wrong in allowing the application. He thought, therefore, the appeal should be allowed, with costs in that Court and in the Court below. The Lords Justices delivered judgment to the same effect. Mr. A. J. Walter, K.C., stated that in all probability Mr. Garratt would appeal.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

O. B. WILSON, LTD. (P.C.).—Capital 300*l.*, in 5*l.* shares. Objects: To carry on the business of chemists, druggists, and dealers in patent medicines. R.O., 196 Queen's Road, Norwich.

P. H. GALLOWAY, LTD. (P.C.).—Capital 20,000*l.*, in 1*l.* shares. Objects: To take over the business of a wholesale chemist and druggist carried on by P. H. Galloway at 154-162 Walworth Road, London, S.E. R.O., 154-162 Walworth Road, London, S.E.

H. A. HUGHES, LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of dealers in all kinds of oils, colours, dyes, turpentine, gums, chemicals, and similar materials. Solicitor: W. T. Hick, Broad Street House, New Broad Street, London, E.C.

J. L. RILEY & Co., LTD. (P.C.).—Capital 3,000*l.*, in 1*l.* shares. Objects: To carry on the business of agents for and manufacturers and importers of and dealers in surgical instruments and appliances of all kinds. Solicitors: Fladgate & Co., 18 and 19 Pall Mall, London, S.W.

SOUTH LAMBETH TINBOX Co., LTD. (P.C.).—Capital 100*l.*, in 1*s.* shares. Objects: To carry on the business of manufacturers of and dealers in tin boxes, patent airtight key-opening tins for preserves, and plain and decorated lever-lid tins for all purposes, dealers in tinplates, etc. R.O., 233-5 Queen's Road Battersea, London, S.W.

WESTMINSTER GLASS AND FURNACE Co., LTD. (P.C.).—Capital 6,000*l.*, in 2,000 ordinary shares of 1*l.* each and 800 10-per-cent. preference shares of 5*l.* each. Objects: To carry on business as manufacturers of and dealers in glassware of all kinds, whether for lamps or bottles, or other goods or articles capable of being used in connection therewith; to undertake and execute any contracts for the erection of glass or other furnaces, etc. R.O., 39 Victoria Street, London, S.W.

AYRTON, SAUNDERS & Co., LTD.—Dividend-warrants for preference shares in this company have been posted this week.

ACTOSE MANUFACTURING Co., LTD.—S. R. Worley, 37 Lime Street, London, E.C., has been appointed receiver and manager under powers contained in a certain debenture filed pursuant to Section 94 of the Companies (Consolidation) Act, 1908.

PRUDENTIAL ASSURANCE Co., LTD.—An abstract of the sixty-seventh annual report, covering the year ended December 31, 1915, is given in the company's advertisement in this issue. This is interesting reading, a touch of romance being imparted to the report by the account of the selling of the whole of the company's American securities to the Government for the purpose of facilitating exchange operations.

KEMBALL, BISHOP & Co., LTD.—The directors recommend a dividend of 10 per cent. and a bonus of 5 per cent. on the ordinary shares for the year, placing 22,046*l.* to reserve, 396*l.* to leaseholds redemption fund, 1,938*l.* to plant and machinery renewal fund, 400*l.* for pensions, 4,227*l.* to bonus and gratuity fund, 9,729*l.* provision for income-tax and excess-profit tax, and carrying 34,453*l.* forward, probably subject to excess-profit tax.

INTERNATIONAL SPONGE IMPORTERS, LTD.—The annual meeting was held on March 3 at Winchester House, Old Broad Street, E.C., Mr. G. S. Marks (Chairman of the company) presiding. In moving the adoption of the report (*C. & D.*, February 26, p. 46), the Chairman said it afforded the directors much pleasure to meet the shareholders under present circumstances with a satisfactory report, and he was confident the shareholders would feel equally gratified. The balance-sheet showed the strong financial position of the company, the liabilities being practically covered by cash at bankers' and investment in War Loan. At the end of 1914 the stock was down to a point which the directors consider a rather low figure, but the company were able during 1915 to meet the requirements of their customers to their entire satisfaction. The supply of good-quality Mediterranean sponges will be much smaller in 1916, owing to the mobilisation of the Greek Army and Navy, which has taken away many of the men who at other times are engaged on the sponge-fisheries, and a large part of the best fisheries will be closed during the continuance of the war. The report was adopted.

Bankruptcy Report.

Re Philip Elliott, The Willows, Bierley, Bradford, Technical Chemist and Manufacturers' Agent.—The public examination of this debtor took place at the Bradford Bankruptcy Court on March 8, and questions were asked by the Official Receiver (Mr. Walter Durrance) as to certain transactions with Evans Sons Lescher & Webb, Ltd., Liverpool. The debtor admitted a deficiency of 2,819*l.* 11*s.* 2*d.*, he having no assets, and this amount representing the total liabilities. After spending some years in the businesses carried on by Lano Soap, Ltd., at Listerhills, Bradford, and the Orbic Co., Ltd., at Shipley, the debtor said he started, with three other gentlemen, in 1909 the company of Philip Elliott, Ltd., of Dale Street, Shipley. The company had a nominal capital of 10,000*l.*, but it had been a failure through want of capital, though successful from the point of view of the amount of sales. The firm went into liquidation in June 1913, and the debtor then assisted the widow of a friend of his in her business. He obtained a loan of 250*l.* from Evans Sons Lescher & Webb, Ltd. When the firm began pressing him he gave away his only asset, this being done ten days before an award was made against him for 2,653*l.* damages in favour of Messrs. Evans. He had approached Messrs. Evans in regard to the making of lanoline which had previously been made in Germany, and in March 1915 the firm agreed to pay him 250*l.* down, 250*l.* on completion of the plant and its working satisfactorily, and 100*l.* a year for five years as a retaining-fee in respect of the manufacture of this commodity. The company bought land costing 600*l.* and obtained works for the manufacture of the lanoline. The Official Receiver suggested that apart from handing over the recipe for the lanoline the debtor had done nothing further for the 250*l.* which he had advanced him. This, however, the bankrupt denied. The Official Receiver read several letters from Evans Sons Lescher and Webb, Ltd., asking debtor to carry out his contract, and debtor replied that it was impossible owing to his being worried. He was able to make the article he had stated he could make. The examination was closed.

Society of Chemical Industry.

THE London Section of the Society of Chemical Industry met at Burlington House on March 8. Mr. A. R. Ling was in the chair. There was a crowded audience. The Chairman called attention to a fine collection of chemical reagents for analysis and research, together with an exhibit of specimens of salts and preparations of rare earths obtained from thoriantite and monazite used in the manufacture of incandescent gas-lanterns, all of which were shown by Hopkin & Williams, Ltd. Thereafter Dr. Percy E. Spielmann read a paper on *The Analysis of Commercial Benzoles*. These usually contain toluene, benzene, paraffin, and carbon bisulphide. When a sample is distilled at 90° C. the quantity of toluene that passes over is always proportionate to the quantity of toluene left in the flask. Then by taking two specific gravities before and after removal of the carbon bisulphide that substance can be estimated, and thereafter the mixture of benzene and paraffin with the known quantity of toluene can be found by calculation. Professor W. A. Bone, opening a discussion on *Economy of Fuel*, said his object was to place before the meeting the basic facts of the question. The national aspects of fuel-economy might be viewed in the light of the situation created by the war and the paramount necessity for economy, or from the aspect of the future of the country in relation to coal-supply generally, and the length of time during which we could continue to get coal at a cost that will not place us at a disadvantage in relation to our nearest competitor. The total probable reserves of coal he estimated at 7,397,553 million tons, of which 69 per cent. is in America. The world's consumption of coal in 1913 was 1,250 millions of tons. Having referred to prices, the lecturer said that the export trade in coal has increased twenty-fold, and he strongly recommended the reimposition of an export tax—one shilling per ton would bring in five millions a year—a portion of this to be earmarked for scientific investigation and research in combustion methods and into the chemistry of coal. Dr. Charles Carpenter, the President of the Society, opened the discussion by saying that individualism has broken down, and the present method of working our mines for private profit is entirely wrong. Professor Arm-

strong, who followed, appealed to the Society to say whether it is or is not going to undertake the scientific work which the lecturer had outlined, and so justify the existence of the Society. Several other speakers having expressed their views, Mr. Walter Reid defended the British Association from the attack which Professor Armstrong had made upon it. He considered that this country is advancing in knowledge and practice in relation to coal-consumption, and that private enterprise is not idle. Anything that would stop consumption of coal in open grates would be of great public service. Dr. Jowett, who followed, said that the question of cheap power for manufacturers in and around London is a very serious matter, and he appealed for more co-ordination of effort to meet the severe competition that would certainly have to be faced. After further discussion, the Chairman suggested that the President (Dr. Carpenter) should appoint a small Committee to consider what further action should be taken, and this was agreed to. A vote of thanks was given to Professor Bone.

Society of Public Analysts.

A MEETING of the Society was held at Burlington House on March 1, Mr. Geo. Embrey in the chair. Messrs. E. J. Bevan, F.I.C., and W. Bacon, B.Sc., F.I.C., read a paper on the *Manufacture of Chemical Filter-paper*. The introduction dealt with the taking-up in this country of the manufacture of filter-paper at the commencement of the war, and gave an approximation of the total consumption yearly. The manufacture of this paper as carried out at the present time is practically in the hands of four firms, and, from examinations that the authors have made from time to time, such papers can be looked upon as being well up to the standard of the German makes, and in certain respects superior. The papers are classified according to their physical characteristics, in which the main question dealt with is that of bulk. Experiments were made to show the relation of this factor to the rate of filtration and absorbency tests. The chemical side of the question, with regard to choice of material, was next dealt with, and the methods of removing the common impurities were described. Mr. A. W. Knapp, B.Sc., F.I.C., then read a paper on *Pink Colour on the Surface of Margarine*. Beakers of margarine left about in the laboratory often become pink on the surface. This colour is found to be due to mineral-acid vapours in the air of the laboratory acting upon the azo colour in the margarine. As butters do not give the colour, it can be used as a test as follows: The filtered fat, solidified in small beakers, is placed in a crystallising-dish, on the bottom of which is a filter-paper soaked in strong hydrochloric acid. The dish is covered, and the fats are examined after two hours. A pink colour indicates that the sample is probably margarine. The hydrochloric acid was found to diffuse $\frac{1}{2}$ in. into the fat in ten days. Mr. S. P. Phillips then read a paper on *A Rapid Method for the Estimation of Fat in Powders*. The method was invented for the estimation of fat in cocoa, and is applicable to any substance which can be finely divided. The process consists of extracting the fat from a known quantity of the substance with trichlorethylene, and of determining the fat in an aliquot part of the solution. Such a quantity of the substance as is likely to contain 1.5 to 3.5 grams of fat is weighed by difference into a 6-oz., wide-mouthed, stoppered bottle (about $3\frac{1}{2}$ in. high to the shoulder); 100 c.c. of solvent at room temperature is added from a pipette, and the mixture thoroughly shaken. The filter used is made by folding together two filter-papers 9 cm. diameter into the shape of a Soxhlet thimble and tying them into a small perforated cork (hole about $\frac{1}{8}$ in.), which is then fixed on to the end of a 20-c.c. pipette. Filtration is hastened by pressure applied to the bottle by means of a tube passed through a bung, which also carries the pipette. In this way 20 c.c. of a clear solution is removed, and the fat in it is determined on evaporation of the solvent. The total weight of fat in the substance taken is determined by multiplying by a factor, which varies according to the weight of fat obtained. Thus if 0.3 gram is obtained the factor is 5.04; if 0.5 gram, 5.11; if 0.7 gram, 5.165. Mr. C. E. Stacy then described *A New Colour-reaction for Aloes*. A pink coloration sufficiently delicate to detect one part of Barbadoes aloes in 10,000 is produced by the addition of a freshly prepared solution of potassium ferri-eyanide to the cold aqueous solution of the aloes under the conditions named. By the difference in colour of the reaction the author claims to be able to distinguish certain different varieties of aloes used in medicine from each other, and from commercial aloin in medicinal preparations.

Births.

Authenticated notices are inserted without charge.

BARKER.—At Watford, on March 6, the wife of D. W. E. Barker, F.C.S., chemist and druggist, of a son.

CROPPER.—At "Nortonleigh," Old Brumby, Scunthorpe, on March 7, the wife of Mr. W. E. Cropper, chemist and druggist, of a son.

GILLIBRAND.—At 25 Bolton Street, South Shore, Blackpool, on March 3, the wife of Oscar Gillibrand, pharmacist, of twin daughters.

KELSEY.—At 141 Victoria Avenue, Benoni, Transvaal, on December 24, 1915, the wife of W. V. Kelsey, chemist and druggist, of a son.

Marriage.

Authenticated notices are inserted without charge.

COX—WRIGHT.—At St. Michael's Church, Mytholmroyd, on March 7, by the Rev. T. Metcalfe, vicar, Sergeant Arthur Cox, R.A.M.C., 3/2 West Riding Field Ambulance, Clipstone Camp, only son of Mr. and Mrs. T. H. Cox, Park Grove Terrace, Frizinghall, to Gladys Beatrice, only daughter of Mr. G. B. and the late Mrs. Wright, Bona Vista, Mytholmroyd. [Sergeant Cox is a member of Mr. Wright's staff in peace-time. He has served five years with the West Riding Field Ambulance (T.), and was called up on the outbreak of the war.]

Deaths.

Authenticated notices are inserted without charge.

ADCOCK.—At Krugersdorp, Transvaal, on January 28, Mrs. Adcock, wife of Mr. E. J. Adcock. Death followed an operation for appendicitis. At the funeral the Pharmaceutical Society of the Transvaal was represented, and other local pharmacists were present.

BENNISON.—At 35 Connaught Mansions, Batterssea Park, London, S.W., on March 1, Theresa Mercedes, aged twenty-two, the beloved wife of William Bennison, Ph.C., 133 King's Road, Chelsea, S.W.

BERDOE.—At Tynemouth House, Bishop's Road, Victoria Park, London, N.E., on March 2, Dr. Edward Berdoe, L.R.C.P.Ed., M.R.C.S., chemist and druggist, aged seventy-eight. Dr. Berdoe passed the Minor in 1863, but in 1876 qualified as a medical man. He was a vigorous personality, with unorthodox opinions on some medical matters.

EDWARDS.—At 111 Salmon Lane, Limehouse, London, E., on February 25, Mr. Richard Edwards, chemist and druggist, aged seventy-four. Mr. Edwards was registered as in business before the passing of the Pharmacy Act, 1868.

FELLOWS.—At 47 Worcester Street, Wolverhampton, on March 4, Mr. Hugh Fellows, chemist and druggist, aged fifty-four. Mr. Fellows, who died suddenly, passed the Minor examination in 1901. He was a Past-President of the Wolverhampton Chemists' Association, and much liked on account of his geniality. He leaves a widow.

GANT.—At "Haywood," Stanwick, on March 1, Mr. Joseph Gant, J.P., chemist and druggist, aged sixty-one. Deceased was a native of Spilsby, and passed the Minor examination in 1877, starting in business in Raunds in 1880. He had taken a large part in the public life of the town, and through his efforts Raunds was raised to the status of an urban district in 1897, and for two years he filled the office of Chairman of the Urban Council. As Chairman of the local Gas Company, he reorganised the supply of gas to the town. He represented chemists on the Northamptonshire Insurance Committee. Four years ago he was made a Justice of the Peace. He had intended to retire from business, but owing to the war he decided to continue for a time. He had bought a house at Stanwick, a village about a mile from his business in view of his retirement. He leaves a widow, a son, and two daughters, who have the sympathy of the county pharmacists, all of whom held Mr. Gant in great respect.

HILL-JONES.—At Buckhurst Hill, Essex, on March 2, Mr. Thomas Hill-Jones, manufacturing chemist and member of the Society of Chemical Industry, of Invicta Works, Bow Common Lane, London, E., aged sixty-five.

HOLDEN.—At 66 Hilden Street, Bury Road, Bolton, on February 23, Mr. Richard Holden, chemist and druggist, aged twenty-five. He passed the Minor examination in 1913.

KING.—At Market Square, Amersham, on March 7, Mr. Ebcnczer Thomas King, chemist and druggist, aged fifty-three. He passed the Minor examination in 1894, and succeeded to his father's business in 1902, having managed it for some years previously. He leaves a widow, a son, and three daughters.

MACCHI.—At 54 Rue Pergolèse, Paris, on March 1, Anthony Angelo Macchi, Italian Vice-Consul at Lille (North France), and Chairman of Lever Bros. (France), Ltd., aged sixty-one.

MACDOUGALD.—At Dundee, on March 4, Mr. George Duncan Macdougald, F.I.C., city analyst. He was born in Edinburgh, and received his chemical training at the University. Mr. Macdougald held many appointments as analyst for boroughs in Fife and Forfar, and was Secretary of the Association of Public Analysts of Scotland. It will be remembered that when the British Pharmaceutical Conference met in Dundee in 1902 Mr. Macdougald described a new apparatus he had devised for milk-analyses. He perfected a method of printing inscriptions on soap-tablets, the wording of which remained visible so long as the soap lasted.

NEWSHOLME.—The family which the late Mr. G. T. W. Newsholme, Sheffield, leaves is a widow, four daughters (two of whom are married), and a son (Alan), who is in Egypt with the York and Lancaster Regiment (Sheffield Division). The funeral at Ecclesall Church on March 3 was largely attended, representatives being present from the various local bodies with which Mr. Newsholme was connected. The representatives of the staff of G. T. W. Newsholme, Ltd., were Messrs. A. H. Culverhouse (16 years' service), J. W. Booth (23 years), David Moore (29 years), C. Southern (20 years), H. Littlehales (33 years), and E. T. Turner (17 years). The Sheffield Pharmaceutical and Chemical Society was represented by Messrs. H. G. Williams (President), Job Preston, J. Gilbert Jackson, J. F. Eardley, and S. Farnival (Hon. Secretary); the Sheffield Insurance Committee by Mr. J. T. Appleton; the Sheffield Pharmaceutical Insurance Committee by Messrs. H. Antcliffe (Secretary), E. Haining, W. Beaulah, E. Wells-Smith, and J. Chadwick; the Sheffield Microscopical Society by Mr. Bernard H. Hoole. There were also present Mr. W. Brinson (Evans Sons Lescher & Webb, Ltd.) and Mr. J. T. Humphrey, Ph.C. Public references to the loss occasioned by the death of Mr. Newsholme have been made by many local authorities.

REYNOLDS.—At Belfast, on March 2, James Reynolds, late Second Lieutenant 7th Battalion Irish Fusiliers, son of Mr. T. W. Reynolds, chemist and druggist, Dungannon, aged twenty. Deceased was educated at Bedford Grammar School. He had to throw up his commission recently, owing to illness contracted while training in England.

ROUE.—At 265 Breck Road, Liverpool, on February 24, Mr. Francis Fairchild Roue, chemist and druggist, aged seventy-eight. Mr. Roue was registered as in business before the passing of the Pharmacy Act, 1868.

SOMERVILLE.—Mr. W. A. Somerville, whose death was announced last week (*C. & D.*, March 4, p. 44), died on February 21. His age was fifty-two.

SPEIRS.—At Bolton, on March 2, Mr. John Speirs, dispenser with Mr. J. W. Shields, chemist and druggist, Moseley Road, Birmingham. Deceased was killed while motor-cycling near Bolton. He had been called up for service in the Army, and proposed to join the R.A.M.C. Prior to joining up, however, he intended to get married, and the wedding was to have taken place this week. At the inquest a verdict of accidental death was returned.

Killed in Action.

CORMACK.—Corporal G. Cormack, Northumberland Fusiliers, son of Mr. Geo. Cormack, chemist and druggist, of Blyth, has been killed in action in France.

Wills.

MR. WILLIAM GARDNER WEDDLE, chemist and druggist, 89 Liscard Road, Seacombe, who died on December 31, left estate valued at 5,248*l.* 1*s.* 8*d.* gross, with net personality 766*l.* 16*s.*

MR. ROBERT COUTTS, Tarnrigg, Windermere, formerly of Manchester, chemist, who died on January 17, aged seventy-four, left estate of the gross value of 17,543*l.*, of which 15,862*l.* is net personality.

MR. JOHN CAMERON SWAN, 7 Collingwood Terrace, Newcastle-on-Tyne, chemical merchant, who died on January 7, aged eighty-eight, left estate valued at 3,836*l.* 18*s.* gross, with net personality 3,737*l.* 1*s.* 11*d.*

Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MR. M. H. STILES, Ph.C., 2 French Gate, Doncaster, has been selected as vicar's warden at the parish church.

A CERTIFICATE OF NATURALISATION has been granted to Mr. A. C. C. JOHANSSON (Swede), wholesale crude-drug merchant, 90 Bishopsgate, London.

MR. J. O. ROBERTS, chemist and druggist, The Cross, has been elected Hon. Secretary of the newly formed Newtown (Montgomeryshire) Traders' Association.

AT THE RECENT MEETING in London of the Association of Chambers of Commerce, the Exeter Chamber was represented by Mr. H. Wippell Gadd, Mr. P. F. Rowse, J.P., and others.

MR. W. H. HEWITT, dispenser at the Holborn Union, has been appointed a member of the Council of the London Branch of the National Poor-Law Officers' Association (Incorporated).

THE COUNCIL of the Metropolitan Borough of Finsbury have unanimously elected Mr. A. Proctor Atkinson a member of the Tribunal to administer the Military Service Act, 1916, within the borough.

MR. DAVID BUCHANAN, chemist and druggist, Kirriemuir, was on March 2 elected Chairman of the School Board. He is also a member of the Parish Council, and has been postmaster for over thirty years.

ON FEBRUARY 23, following the custom of the firm, Joseph Crosfield & Sons, Ltd., Warrington, presented 25% to Mr. John Willett, who has completed half a century of service. Mr. F. W. Brock (Chairman of the company) made the presentation.

AT THE ANNUAL MEETING of the proprietors of the Cocker-mouth, Keswick, and Penrith Railway, at Keswick, on February 26, Mr. T. W. Townley, Ph.C., seconded the vote of thanks to the Chairman. He also proposed the election of the auditor.

MR. J. S. MATTHEWS has resigned his position of managing director and secretary to Matthews (Cash Chemists), Ltd. Mr. J. P. Kendall, who has been a director for about seven years, has been appointed managing director, and Mr. W. Scott Rea has been appointed secretary.

THE PRIZE of 10% and a silver medal, offered under the Peter Le Neve Foster Trust by the Royal Society of Arts, for an essay on "Zinc: Its Production and Industrial Applications," has been awarded to Mr. J. C. Moulden, A.R.S.M., M.Inst.M.M., of Seaton Carew, co. Durham.

MR. WILFRID DANIEL, who has been elected President of the St Vincent Association, represents on the road Baiss Bros. & Stevenson, Ltd., wholesale druggists, Grange Road, Bermondsey, London, S.E.



MR. W. DANIEL.

Mr. Daniel was born at Merthyr Tydfil, has father having been a manufacturing chemist before he received an appointment as Official Receiver. Mr. Daniel entered the drug-trade on leaving school. He is a football-player, a member of the North London Bowling Club, and a Freemason.

MR. E. W. HARPER, Ph.C., F.Z.S., sailed on the s.s. *Caledonian* from Tilbury for Bombay to rejoin Bathgate & Co., Calcutta, with which firm he has already been for some years. Mr. Harper has also

had experience in British Guiana and in British East Africa; in the latter Protectorate he was the first President of the Pharmaceutical Society of British East Africa and Uganda, which was founded three years ago.

THORNETT & FEHR, Baltic House, Leadenhall Street, London, E.C., have issued their annual report on the oil and fat markets for 1915, which consists of seventy pages (10½ by 8½ in.) in cardboard covers, giving a concise market review of copra, coconut oil, palm-kernels and palm-kernel oil, tallow, grease, whale and palm oil, oil-seeds, liquid vegetable oils, soap, etc. Fluctuations in prices, imports, and exports, with the principal world's markets, are given in a series of tables.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Rust-remover.—Friend and Marshall ("Journal of the Iron and Steel Institute") state that sodium citrate in a 20-per-cent. solution readily removes rust from iron. Saturated solutions of boric acid act rapidly, and only dissolve iron slowly after the rust has been removed.

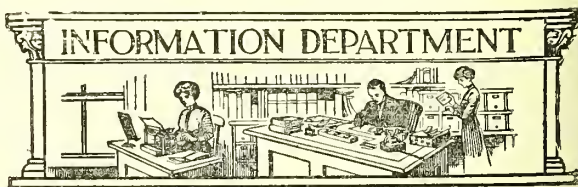
Hydrogen-peroxide Reaction.—If a dilute phenol solution is treated with a few drops of N/10 hydrogen-peroxide solution and a freshly prepared N/100 ferrous-sulphate solution added, an intense green coloration is obtained. The colour changes to reddish violet on addition of dilute alkali solution, but the green colour re-appears when the mixture is acidified.—*Zeit. der anal. Chemie.*

Distinguishing Benzine and Benzol.—Dieterich's dracorubin test-paper is a simple method. The test-paper is prepared by impregnating paper with a solution of purified resin of palm dragon's-blood—the dracoresinotannol ester of benzoic acid. This resin is soluble in benzol, but insoluble in benzine. The test-paper may also be used for controlling the degree of refining of benzine; the higher the degree of purity of the benzine, the less colouring-matter is removed from the test-paper.

Salvarsan and Allied Compounds.—Mr. Noel C. Cassal contributes to the "Journal of Chemical Technology" (II., 5, 185) an article on salvarsan and its allied compounds. This is a review of the evolution of salvarsan, and deals with the relationship of atoxyl (arsamin, soamin), arsacetin, arsacetin-quinine, asyphil, hectine, salvarsan (arsenobenzol, arsenphenolamine: Ehrlich-Hata, "606"), neosalvarsan, and arsenophenylglycine (Hata's "418"). References are given to British and German patents, and also to chemical literature.

Beesia.—A new genus of *Ranunculaceae*, named *Beesia*, in honour of Bees, Ltd., to whose enterprise much botanical exploration in China, Burma, and the Himalayas is due, has been described, states "Nature," by Professor Bayley Balfour and Mr. W. W. Smith in Notes from the Royal Botanic Garden, Edinburgh. The new plant, *Beesia cordata*, which is figured, is allied to the Japanese genus *Glaucidium* and to the Japanese and American *Hydrastis*. It was collected by Mr. F. Kingdon Ward in Northern Burma, at 9,000 ft. altitude, in the deep shade of the rain forest.

X-ray Dangers.—The Rontgen Society has issued a card of recommendations for the protection of x-ray operators, which gives in concise form the best means to guard against the harmful effects of x rays. It is pointed out that the injurious effects are cumulative, that x-ray work should only be carried out under the direction of a qualified medical practitioner experienced in x-ray work, that x-ray tubes should be properly sheathed by material impervious to x rays, and that operators should be shielded. When screen-examination is made, the screen should be covered with thick lead glass.



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152/58. "Fibro-tonis."

152/58. "Croton Petinum" veterinary preparation.

154/31. "Crithmol," said to be an antiseptic.

155/13. Mitchell's "Snow White."

156/52. "Berosal."

157/1. "Savonette" (Scrub).

Observations and Reflections.

By Xrayser II.

The Death of Mr. Newsholme

deprives us of one of our strong men—one whose career shows not only what pharmacy is worth to those who can make the best of it, but also what a man with the genius of statesmanship might make of pharmacy. No single man of our time has done so much as he to broaden the basis of the Society, or to liberalise its policy, and his efforts at organisation, if not all that was needed, had yet very valuable results—sufficient, at any rate, to show what might be done by organisation of a more thorough kind. It is hardly possible to overrate the value of a man like Mr. Newsholme, who in his quiet, decisive and always dignified manner was ever ready to spend himself and give of his best for the sake of any good cause, public or private. The reflex influence of any man's public life is enormous, and I am quite certain that pharmacy in Sheffield occupies a much more highly honoured position to-day just because Mr. Newsholme, pharmacist, was the man he was, than it would have done had he devoted himself to pharmacy pure and simple and left the burden of public work to others. His removal at a comparatively early age is a serious loss, though he had ceased to take an active part in the conduct of the Society. The retrospect of what he accomplished naturally turns our gaze forward as well as backward. The time for nominating seven members of the Council is near at hand, and though I believe it has been suggested that the election this year should be without a contest, I see no reason why we should be specially anxious to avoid one. It seems to me that never were pharmaceutical politics more important than now; never were conflicting views affecting our most vital interests in sharper contrast; never was there more obvious need of internal reform as the only possible way to the bold and vigorous external policy which our "present discontents" demand. Will no man with the requisite ability and force of character come forward with a definite workable scheme—local representation or what you will—for the closer articulation of the pharmaceutical body and the harmonious working of its several parts? I want to see every pharmacist a member of some local Association, and every Association or group of Associations with a representative of its own choice on the Council, pledged to a policy approved by the bulk of his constituents. But if a better ideal than this can be suggested, so much the better; only let it be something not entirely visionary.

The Title of Chemist,

which Sir James Dobbie appears to begrudge us, is one to which I have already shown that we have a good historical right. To what was said in my former note on the subject (see Vol. lxxxviii., p. 45) the following may be added for the benefit of Fellows of the Institute of Chemistry. The first recorded instance of the occurrence of the term in English is in Bulleyn's "Book of Simples," where it indicates "distillers of waters," which the "O. E. D." curiously regards as referring to alchemy. The same signification (alchemy) is given to every other quotation of the word but one, down to 1626. The exception occurs in 1616, when it is applied to a physician "following the method of Paracelsus." Raleigh, however, in his "History of the World" (1614) has a pertinent passage in which there is no reference to Paracelsus, or to what were usually called chemical medicines. He says, "A skilful and learned *chymist* can as well by separation of visible elements draw helpfull medicines out of poyson as poyson out of the most helpfull herbes and plantes." It would thus appear that if there has been any misappropriation of the term it is not the chemists and druggists that are

the thieves; and if it is contended that as the modern equivalent of "alchemist" it belongs of right to F.I.C.s and their kind rather than to us, I reply that the best authorities tell us that the origin of "alchemy" itself was probably the Greek *chymia*, "first applied to pharmaceutical chemistry, which was chiefly concerned with juices or infusions of plants"—exactly in accordance with Raleigh as just quoted.

Lemonade, too,

may have to be surrendered. Mr. Cathcart Wason, M.P., wants accurate figures as to the consumption of sugar in the manufacture of ginger-ale, ginger-wine, and lemonade in order that attention may be drawn to the advisability of diverting the sugar to the more useful purpose of making jam. I do not know why ginger-wine is included with aerated waters, because it is not aerated, and it is usually a strongly alcoholic beverage—much stronger than ordinary beer—though in certain circles it is regarded as a perfectly innocuous beverage for a teetotal family. Be that as it may, it is quite clear that lemonade and other sweet beverages are threatened, and if they go no one will feel the deprivation, unless in the height of summer, when an aerated drink is not only cooling but wholesome. There is a large amount of capital locked up in aerated-water plant all over the country, but manufacturers must make up for the loss by bottling and pushing saline beverages more than they are doing now. I am glad that enterprising aerated-water makers are developing the business of bottling artificial mineral waters.

The New Tariff

has been much criticised, and is evidently open to the objection which "Alpha" and others have urged against it, but some of its critics appear to me to have taken up an entirely wrong standpoint with regard to it. They criticise it as a Tariff on "a business basis." Similarly it was recommended to us by the Departmental Committee as being on a "commercial basis," but to speak so of it is to misuse terms; if commerce is trading and trading is business, then certainly the Tariff, whatever else we may say of it, cannot be so described. It is ostensibly based on the principle of selling at cost price, but selling at cost price, interpret that term as we may, is not what we understand by business. It would be much nearer the mark to say that the Tariff stands on a professional basis, and this is precisely why many pharmacists were induced to accept it. They were flattered by the notion that henceforth they would not be selling for a profit but working for a fee—would, that is, be regarded not as tradesmen but as professionals. Now, there is something, no doubt, to be said for those who prefer to be so regarded, but we cannot have the thing both ways. If we take the professional point of view, it is, as I have always said, the fees we must concentrate on, not the Tariff. I repeat that this is no reflection on "Alpha's" point. "Cost price" ought to mean the actual, not the nominal, price.

The Writers in "The Script"

are, I should guess, mostly young men; they remind me of Matthew Arnold's "young lions of the 'Daily Telegraph,'" in the good old times when a girl who had been stabbed in a dozen places could be seriously referred to as "this profusely perforated damsel." But though their style is a little too flowery and metaphorical for my taste, their views are generally sound, and I heartily commend the contents of this month's number to the consideration of all who come across it. From first to last it is all but entirely devoted (except as regards its news columns) to the defence of the trade side of pharmacy. The Editor raises the tune, and it is kept up in turn, with some notable variations, by "Crusader," by "Sinapist," by "Acu-oculis," and in a capital unsigned article on "The Dignity of Trade." Only one correspondent (of course he dubs himself "Excelsior") strikes a jarring note—like Abdiel in the company of Milton's angels, "Among the faithless faithful only found." I find I have myself fallen into the metaphorical vein, but the *verre* of these writers is infectious. More power to their elbows!



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Editorial Articles.

British Overseas Trade.

THE Board of Trade Returns for February, which were issued on March 7, more than maintain the recent improvement in exports, the increase being the substantial one of 10,158,845*l.*, compared with February 1915, the total shipments being 36,335,782*l.* They are rather less than five millions sterling below the pre-war figure of February 1914. In point of value they are almost equal to the January 1916 figures, which were 36,757,000*l.*, so that despite unusual conditions there is little ground for complaint. It is also satisfactory to note that the unhealthy expansion of imports has ceased somewhat, the total for the month being 67,348,243*l.*, or 2,147,771*l.* more than in February 1915. Our food imports last month were valued at 28,254,000*l.*, or 270,184*l.* more; grain and flour were 1,425,500*l.* more, but the quantities received were appreciably less by 268,507 cwt.; tobacco and dutiable foods fell off by 1,305,000*l.*, which is a welcome sign. Raw materials continue to be received in very satisfactory quantities, the imports for the month being 24,674,766*l.*, or 357,000*l.* more compared with February last year. The imports of oil-seeds, nuts, oils, fats, and gums were valued at 4,275,066*l.*, an advance of 421,878*l.* There were much larger receipts of castor-seed (by 107,306 cwt.), linseed (by 20,917 qrs.), and colza (by 14,750 qrs.). Soya-beans show decreased receipts of 14,590 tons, and palm and other kernels for expressing oil therefrom declined by 14,397 tons. Petroleum fell off by 21,541,482 gals., or 95,081*l.*, and unrefined coconut oil by 63,292 cwt.; of acacia gums we received 8,854 cwt. more, the value improving by 22,809*l.*; turpentine-oil imports were 3,405 cwt. more. The oil section shows how values have increased and quantities decreased. Our imports of manufactured goods were 1,212,316*l.* more, being valued at 13,930,500*l.*, and our purchases of chemical and allied goods were valued at 2,195,000*l.*, an increase of 812,178*l.*—these figures showing a remarkable advance. The increase is all round, but applies in a large degree to miscellaneous chemicals, which were 299,000*l.* more, the imports being valued at 487,000*l.* There were much larger receipts of tanning extracts, some of which are badly wanted. Drugs and medicines were 135,000*l.* more, this including 263,708 oz. more of quinine and quinine salts, and 85,000*l.* more for unclassified drugs. Receipts of brimstone continue good, as do those of calcium carbide, glycerin, soda-compounds, and saltpetre. Quicksilver imports fell by 96,601 lb. to 376,600 lb., but values rose from 74,173*l.* to 82,818*l.*, compared with February last year.

The increase of ten millions sterling in British exports is made up of: Food, drink, and tobacco, 363,820*l.*; raw materials, 1,317,176*l.*; and manufactured goods, 8,129,054*l.*; our shipments of oil-seeds and the like were 126,727*l.* less, at 352,956*l.*, this, no doubt, being due to the severer restrictions on exports and the desire to conserve our own supplies. In the manufactured-goods section the increase is all round, the biggest advance being in cotton fabrics by 2,449,000*l.*, woollen fabrics by

1,361,000*l.*, iron and steel goods by 1,852,000*l.*, thus showing that our chief staple industries are as active as conditions permit. The metal, hardware, electrical machinery, leather, motor, and paper industries have all done better business than in the corresponding month of a year ago. It must be borne in mind, however, that the figures for goods exported include goods bought in the United Kingdom by, or on behalf of, the Governments of the Allies, but do not include goods taken from the British Government stores and depôts, or goods bought by his Majesty's Government and shipped on Government vessels, which goods must be valued at many millions. The chemical and drug trades again had a brisk month, the values increasing by 454,153*l.* to 2,063,382*l.*, and, compared with the normal period of February 1914, the rise was 317,415*l.* Undoubtedly, high current values are responsible for much of the increase, as the quantities available for export have been generally smaller, and February witnessed a smart advance in values of some products. Wholesale druggists are to be congratulated on the drug and medicine exports, which were 100,500*l.* more than in February 1915, and this at a time when many difficulties are placed in the way of business. The medicine figures are as follows:

	1914	1915	1916
	£	£	£
February	183,483	232,303	332,782

The quinine exports fell from 151,373 oz. to 82,231 oz., but the values rose from 9,996*l.* to 14,387*l.* Bleaching-powder exports were 21,333 cwt., or 8,615 cwt. less, but the value was 3,237*l.* more; again, 81 tons less of copper sulphate was exported, but the value was 51,407*l.* more. We are releasing much larger quantities of aniline oil, toluidine, benzol, and toluol, while big shipments of tar oil, creosote, etc., are recorded; the values of the coal products (not dyes) being 230,000*l.*, or 60,000*l.* more than in February last year. The Government having placed a veto on a large proportion of the export business in ammonium sulphate, there has been a slump all round. Soda compounds, too, shrank considerably, but painters' colours and materials did well.

The Recruiting Problem.

Those who read the reports of the Local Military Tribunals which we print this week and have published in the last two issues will have noticed the want of uniformity in action which has characterised the various Tribunals. This is due doubtless to varying constructions placed upon the memoranda which guide the Tribunals and also to insufficient information on the part of claimants for exemption. Efforts are now to be made to bring about uniformity in the decisions of these Tribunals as regards pharmacists. In the case of professional chemists it was arranged some time ago that they should not be recruited without permission of the Royal Society, a Committee of which advised the Local Tribunals as to the indispensable character of the work upon which each chemist was engaged. This centralised scheme is not so readily adapted for the drug-trade, but upon the initiative of the National Health Insurance Commissioners and the Pharmaceutical Society a method has been devised which it is hoped will prevent the hardships of the present rough-and-ready methods adopted by the Local Military Tribunals. The Commissioners are sending out instructions to Insurance Committees as to the necessity of preventing undue depletion

of the dispensing staff of panel chemists, and suggesting that a Joint Committee selected from members of the Insurance Committee and the Pharmaceutical Committee should take charge of the matter in each Insurance area and confer with the military authorities so as to retain the services of a sufficient number of chemists in civil life. The Pharmaceutical Society is also advising Pharmaceutical Committees as to the new scheme. The Secretaries of the various Pharmaceutical Committees will be asked to communicate with all the chemists in the area covered by the Committee, explaining the steps that are to be taken. Forms will be sent out to all chemists asking for particulars as to the number of assistants employed, the number who have enlisted, etc. The Pharmaceutical Committee will then, in conjunction with the Insurance Committee and the military authorities, consider the needs of the district and also arrange that all applications for certificates of exemption shall be heard on the same day. It is believed that the new system will help to bring about uniformity of practice. Although it will be observed that the reform has come about somewhat tardily, there is reason to believe that cases of injustice may still be rectified. On this account it is necessary that all the particulars asked for in the forms which are to be sent out should be supplied promptly and fully. The non-panel chemist is equally affected by the scheme, as it is obvious that a depletion of his staff tends to throw more work on the already overworked staff of his neighbour who may be on the panel. The scheme applies both to attested men and to those who come under the Military Service Act. The change of practice, it will be noticed, is that instead of an attested man engaged in a certified occupation being automatically exempted from military service, it is open to the Military Representatives to challenge the necessity of retaining the services of chemists in civil life. This has, it is true, already been the attitude of the military authorities in many areas, but now by a joint conference the pharmaceutical needs of the district are to be considered as a whole and arrangements made which will be fairer to all parties. We notice that many of the Military Representatives appear to think that there are plenty of women who can replace men dispensers, but the short answer to that is that all competent women dispensers have long since been settled in positions, and that at the present time there are no qualified women to be had.

Soap as a By-product.

THE great war has been responsible for many changes, but surely for none so dramatic as that which has caused glycerin to change places with soap as an article of manufacture and trade. Ever since Chevreul's great discovery, nearly a century ago, soap has been regarded as an indispensable requisite in civilised society. In English-speaking countries particularly its use has become so universal, and its manufacture in Great Britain has assumed such huge proportions, that it has long been regarded as one of our staples. It was far otherwise with glycerin, which up to now has simply been a by-product in the manufacture of soap. Though discovered in the eighteenth century, it was even up to fifty years ago practically regarded as a chemical curiosity, and its importance as an article of commerce only began to be recognised with the introduction of nitro-glycerin and dynamite as explosives for blasting-purposes. The demand has hitherto been limited mainly to mining

operations and latterly to experimental gunnery, and the amount of glycerin obtained from soap-factories has always been sufficient, with periodical fluctuations, to keep the world supplied without altering the relative position of the two products. To-day the war has changed all that, and we now learn that, for the time being at least, glycerin is the main object in soap-manufacture, and soap is relegated to the position of a by-product. Seeing that a steady market is at hand at remunerative prices for the principal product, one would imagine that manufacturers would be open to sell the by-product at a reduced price. But the soap-manufacturer—or rather the glycerin-manufacturer, as we must now regard him—argues thus: "I am selling all my principal product—glycerin—to the Government, and am now no longer able to export glycerin. The result is that soap-manufacturers in neutral countries are getting a high price for glycerin, and consequently they are producing more and more soap, with the probability that this soap will be dumped on our shores at ruinous prices to the detriment of native manufacturers." Hence a simultaneous cry from the Press, Parliament, and makers for the prohibition of the importation of foreign-made soaps. Now, this would be all very well if it could be shown that shareholders in soap companies were suffering, but apparently it is the other way round. The price the Government is paying for glycerin is evidently sufficiently remunerative to permit the profits of some soap-makers in 1915 to exceed those of 1914 by nearly 50 per cent. Apparently, therefore, the manufacture of glycerin is a profitable industry. Yet the manufacturer wishes to secure the same ratio of profit on his by-product soap during the war as he used to do before. If he can show that he is selling glycerin at cost price and losing money by the transaction, the public generally and sellers of soaps might prove more sympathetic. Before the war the soap-maker exported his by-product glycerin to America at a profit, in spite of competition; what is to prevent the glycerin-manufacturer still exporting his by-product soap at a reduced price and beating Americans on their own ground? It would be interesting to know what percentage of profit would accrue to the glycerin-manufacturer were he to sell soap at the same price as the imported article, which has also to bear heavy expenses for freight and insurance. We are quite sure that the public and pharmacists generally will support every industry which can show that a strong endeavour is being made to protect consumers from inflation of prices; but they are suspicious—it may be unwarrantably in many cases—of the accumulation of war profits. The practical prohibition of the importation of neutral-made soaps with a suspicion of profiteering behind would undoubtedly be met by a determined public protest. It looks as though the manufacturer can afford to take less for his by-product so long as he has a convenient market assured him for his chief product, and by exporting that by-product he would assist in a really practical manner in preventing the fall in exchange values.

Venereal Diseases.

THE final Report of the Royal Commission on Venereal Diseases has been issued during the week, and in it are made many recommendations of national interest regarding the measures that should be taken to minimise the evil caused by the spread of venereal diseases. Of the

thirteen members of the Commission six had medical or surgical qualifications—Sir Malcolm A. Morris, Sir John Collic, Dr. Arthur Newsholme, Dr. F. W. Mott, Dr. Mary D. Scharlieb, and Mr. J. E. Lane, F.R.C.S. The Commission was appointed in November 1913, and has held numerous sittings and examined a number of witnesses. The following recommendations are of particular interest to the drug-trade:

Extended facilities should be made available for the diagnosis of venereal diseases by laboratory methods. . . . The cost of this service should be met as to 75 per cent. from Imperial funds, and as to 25 per cent. from the local rates.

Measures should be taken to render the best modern treatment of venereal diseases readily available for the whole community, and the arrangements should be such that persons affected by these diseases will have no hesitation in taking advantage of the facilities for treatment which are afforded.

Subject to proper safeguards, local authorities should be empowered to supply salvarsan or its substitutes gratuitously.

The recommendations of the Select Committee on Patent Medicines, regarding the prohibition of all advertisements of remedies for venereal diseases, should be put in force.

The Report begins with a description of syphilis and gonorrhœa and the means of transmission. Then follow sections giving the statistics available as to the prevalence, the effects, and the means of treating or preventing these diseases. That part dealing with the treatment of syphilis states, in regard to mercurial treatment, that inunction with mercurial ointment is more effectual than other methods of using that drug. In regard to arsenical treatment, the Report refers to the use of salvarsan and neo-salvarsan as safe remedies in the hands of a well-trained medical practitioner provided all the details of technique are carefully followed. Some remarks are made regarding the manufacture of salvarsan in this country under the name of kharsivan and neo-kharsivan, and of the supply of arseno-benzol-Billon and novarseno-benzol-Billon by a French firm. The use of galyol, it is added, has been attended with considerable success. The adequate provisions made for biological control of British salvarsan are mentioned. In gonorrhœa preference is expressed for organic combinations of silver for urethral injections. A chapter in the Report deals with the treatment of venereal diseases by unqualified persons. "Many chemists prescribe for these diseases," it is stated, while in various places in the Report "herbalists and chemists" are linked. These undertake treatment for gain, but the opinion of the Commission seems to be that this is undesirable. This may be so in an ideal world, but, on the other hand, it is stated by one of the witnesses—a surgeon—that there is "one type of doctor who refuses to treat the disease (gonorrhœa), and simply gives his patient a moral discourse." One man of this type wrote to a patient, "You have had the disease one year, and I hope it may plague you many more to punish you for your sins, and I would not think of treating you." Cut off from treatment by a medical man, it is no wonder that the victims turn elsewhere for treatment. Among the appendices are a report of outbreaks of syphilis at the glassworks of E. Brefit & Co., Ltd., communicated by the blowpipe, and one by Dr. Mott on the laboratory methods of diagnosing venereal diseases. Surgeon G. B. Scott, who put in a memorandum on the treatment of venereal diseases in the Royal Navy, gives the formula for the preparation of mercury cream for the intramuscular injection issued to the Royal Navy. It is interesting to notice that the Report shows great faith in the virtues of salvarsan as a cure for syphilis. It happens, however, that there are signs that medical opinion on this subject is rapidly changing, and it is possible that before long the Commissioners' opinion will be quite out of date.

Sulphate of Ammonia.

THE recent prohibition of exports of this chemical, except to British Possessions and Protectorates, came as a surprise to manufacturers, for the existence of the industry has been largely dependent upon the export outlet. Manufacturers, indeed, look upon the prohibition as a somewhat serious matter, although its effect has been in some degree mitigated by the fact that export licences have since been issued on a limited scale for Allied and neutral countries, whose requirements have been usually covered by British makers. Meanwhile, the market has been notably affected, which is only natural, inasmuch as the prohibition has encouraged home farmers to hold out for material concessions. Some time ago the price advanced to about 18*l.* per ton f.o.b. for export from most home ports, and it now shows a set-back of roughly 30*s.* per ton, with comparatively limited trading, for there is no denying the fact that there is little confidence for the present in the stability of the market. The tendency is towards further weakness, while rather more difficulty is being experienced in securing licences, although current prices are considered very reasonable compared with the relatively high prices ruling for other descriptions of fertilisers. There is no doubt that merchants and farmers are taking advantage of the present unsettled conditions to depress values in anticipation of an eventual accumulation of stocks. It is understood that the Government prohibited exports because they wish to popularise the use of ammonia sulphate at home; but judging from the comparatively small quantities absorbed in the past, it is doubtful whether the home outlet will be very much developed, even at a considerable sacrifice in prices at the expense of producers, as farmers would probably require special inducement in the matter of terms to absorb anything like an important portion of current output. Farmers' takings in the past have, as a matter of fact, hardly been much in excess of 20,000 tons per annum, which cuts but a poor figure compared with a normal yearly production of about 400,000 tons, while the export movement of late years represented roughly 75 per cent. of the output. Allowance, it is true, must now be made for the fact that large quantities are now being required for the manufacture of war munitions, ammoniacal liquor likewise being absorbed for the same purpose. The latter consideration has possibly influenced the attitude of the authorities, inasmuch as the present marked scarcity of sulphuric acid has a bearing on the situation.

Until the export prohibition came into force the general demand was apparently well in excess of the rather reduced output, but things have now undoubtedly been reversed, much to the disappointment of makers, whose difficulties in working are now greater than ever. Up to a year or two ago the export markets were chiefly under the control of the British industry, and it seems rather a pity that their very existence should be threatened by the Government measures now in force, since the production in America has shown much greater elasticity. Meanwhile the warning given by the authorities to farmers not to be too exacting in the way of concessions is worth noting.

Signing for Laudanum.

THE "GAZETTE" notice of the approval of the Privy Council of the change in the strength of opium preparations which are included in Part I. of the Poison Schedule was published on February 11. The alteration becomes

in force one month after the advertisement has appeared in the "Gazette," so on and after March 12 all sales of laudanum must be signed for by the purchasers in the poison-book. The Executive Committee of the General Medical Council, to whom the Privy Council communicated the fact that the Pharmaceutical Society had passed the resolution altering the strength of opium preparations in Part I. of the schedule, on February 21, expressed gratification at the action taken by the Privy Council and by the Pharmaceutical Society in this matter.

Oil-seeds and Oils for Holland.

As there has been much criticism in the London Press regarding the alleged failure of the British Government to prevent goods from overseas reaching Germany *via* Holland, the Dutch Overseas Trust has issued a pamphlet seeking to disprove such statements. The principle of restricted imports was enforced in October. The pamphlet gives particulars relating to imports of fats, oil-seeds, and fixed oils in the last quarter of 1915, compared with the first quarter of 1915. Some of the figures are as follows:

	First Quarter.	Last Quarter.
	Tons	Tons
Linseed	107,581	37,293
Ground-nuts	6,025	3,314
Soya-beans	10,762	3,177
Train oil	3,221	133
Coconut oil	2,935	1,862
Palm oil	5,821	2,800
Ground-nut oil	1,439	193
Cotton oil	22,052	5,136
Rape-seed oil	203	45
Other edible oils	201	100
Linseed oil	19,815	Nil.
Palm-kernels	1,874	6,006
Soya oil	2,516	7,678

It will be seen from the above table that only as regards a few articles was an increase in imports noticeable—*e.g.*, palm-kernels were 3,132 tons more in the last quarter, but this increase was said to be due to the fact that the kernels were only imported from the West Coast of Africa at irregular intervals. The soya-bean oil imports were 5,162 tons more, because the Dutch margarine-factories usually import this oil only once a year from Manchuria. The imports of palm-kernels in 1915 were 37,882 tons less than in 1913, and those of soya-beans 11,000 tons less. Generally speaking, it will be seen that the imports of fats, oils, and oil-seeds decreased considerably. It is evident, however, that far too much linseed (107,581 tons) went in the early part of 1915, and the same applies to linseed oil (19,815 tons). Judging by what Lord Emmott said in the House of Lords recently, the whole position has now been altered, and for the last quarter of 1915 the amount of fats, oils, and oleaginous seeds was within the normal, which, he said, "is an amount not sufficient, if the whole of it had gone to Germany, to have given that country one week of their normal imports." In regard to palm-nut kernels and soya-beans, it may surprise some people to know that according to the Board of Trade Returns our imports of margarine from the Netherlands in 1915 amounted to 2,024,469 cwt., or 521,592 cwt. more than in 1914, which indicates that although neutral countries might need much from us, we need imports from them as well, and that there must be a certain amount of give-and-take in these matters.

THE USE OF EUSOL diluted five times with water is advocated for the treatment of conjunctivitis by Dr. W. E. Armstrong in the "British Medical Journal."

British Trade with Holland.

HOLLAND has hitherto been almost entirely dependent on Germany for the supply of pharmaceutical drugs and chemicals, having no important industry of her own. As the war progressed, however, it has become increasingly difficult to obtain the necessary supplies, and, as we reported a fortnight ago, Germany is blackmailing her neighbour by arbitrarily quadrupling the price of all synthetic chemicals and aniline dyes. Dutch buyers are therefore eager to do business with British wholesale houses, whose trade in pharmaceutical products up to the present has been insignificant. The opportunity now presented is regarded as exceptional, and we have asked a Dutch contributor to put before the British drug-trade his ideas on the best way of promoting the sale of pharmaceutical and chemical products and druggists' sundries. He therefore suggests that:

(1) British manufacturers and wholesalers should enter into business relations with the following Dutch wholesale dealers:

K. G. W. de Bosson, Dordrecht;
Brocades & Stheeman, Moppel;
Koninklyke Pharmaceutische Handelsvereniging,
Amsterdam;

Onderlinge Pharmaceutische Groothandel, Utrecht;

C. & C. J. Plugers, Rotterdam;

Schnaltz & Werlich, Amsterdam;

D. Veen & Co., Haarlem.

(2) That British wholesalers should adopt the German practice of breaking bulk, because Holland is not a large country, so that the wholesale dealers there cannot, as a rule, take original packages or lots.

(3) That British manufacturers should quote products which they are in a position to make in competition with German makers.

(4) That British wholesalers continue to quote their prices in English currency, although the rate of exchange is somewhat disadvantageous at present.

(5) That the Board of Trade and the War Trade Department should grant export licences more quickly than hitherto, because the German houses are already erecting depôts in Holland in order to maintain their outlet in that market as much as possible by quick delivery.

(6) That British wholesalers should send to the above-mentioned Dutch firms price-lists of pure and technical chemicals, drugs, glassware for laboratories, thermometers (fever and bath), rubber articles of all kinds for medical use, etc.

(7) That British houses should pay visits or send their travellers regularly to the said Dutch houses. Every educated Dutchman speaks or understands English.

Unfortunately at the present time there is not much scope for the British drug-trade to promote Dutch business, because their energies are devoted to supplying the home and Colonial trades, and the severe restrictions on exports and high values prevent full advantage being taken of the situation. There is no reason, however, why the trade in druggists' sundries and rubber goods should not be developed on profitable lines.

In his annual report the British Consul-General at Rotterdam writes: "At the end of the war I am of opinion that, so far as the Netherlands is concerned, a great era of prosperity will set in, and not only for this country and its merchants and ports, but also for British trade. It would seem clear that, at all events for some years to come after the cessation of hostilities, Rotterdam will be the great port of entry for the Continent. For reasons which it is unnecessary to enlarge upon, both Antwerp and Hamburg will certainly not for many years to come attain their previous prosperity. If British shipowners and merchants would lay their plans now and be prepared to take advantage of the great rush of trade which will undoubtedly occur after the conclusion of a satisfactory peace, I see no reason why they should not share very largely in the prosperity of this country. There is no doubt that a great many articles, which hitherto have been supplied by Germany to the Netherlands, can in the future be supplied from the United Kingdom, and provided only that British houses and manufacturers will adapt themselves to the requirements both of the local market and of the important market in the Dutch East Indies, they would easily obtain the greater portion of this trade, which was previously in German hands. Referring to the remarks in my report for the year 1913 as to British houses not getting sufficiently into touch with this Consulate-General, I am happy to state that latterly I have observed symptoms of British merchants being more inclined to write to me for information, and this

irrespective of the special questions which have arisen owing to hostilities. I need not say that I shall always be most pleased to try my utmost to further their interests here and to give them all assistance which I possibly can in the matter. On innumerable occasions attention has been drawn to the fact that British firms do not adapt themselves to the requirements of a foreign market. When potential customers ask a German firm to send them a certain class of article which is not in stock, the German firm at once agrees to make it and send it, payment on delivery or on credit for three months. The British firm replies that it does not stock this article and therefore cannot supply it. Many instances have lately come before me to the effect that even this war has not taught all British firms the lesson of adaptability. During the last two or three months many applications have been made to me by Dutch firms who are desirous of obtaining British goods of all sorts after the war, in lieu of continuing to deal with German firms as they have done hitherto. I believe that in certain cases business has resulted, or at all events the promise of business as soon as the present restrictions on trade are removed, but in many cases my Dutch applicants tell me they have been met by the usual statement that such articles are not stocked."

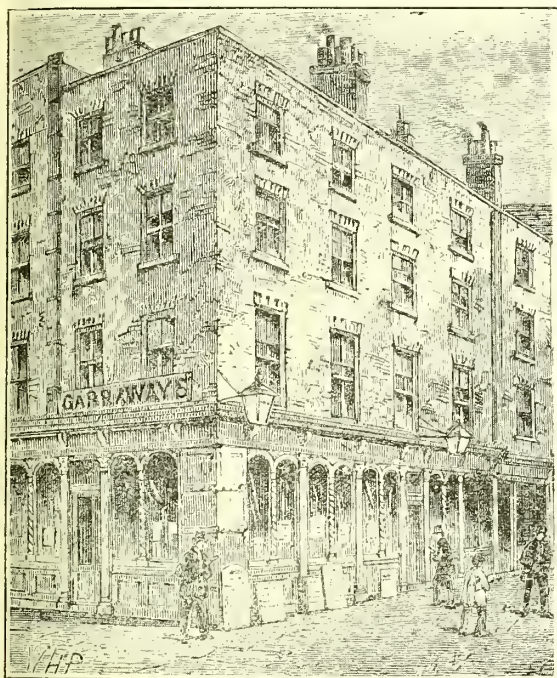
Chemical Society.

A MEETING of the Chemical Society was held on March 2, Dr. Alexander Scott, F.R.S., in the chair. The first paper was by Messrs. G. Senter and H. D. K. Drew on *Studies on the Walden Inversion, Part 3*. When phenylchloroacetic acid is treated with ammonia there is produced phenyl-aminoacetic acid. When this is done in aqueous solution the sign of the optical rotation is altered, so that, starting with a dextro chloro acid, the amino acid is laevo. When, however, acetanilide is employed as solvent, the sign of the prepared amino acid is the same as the chloro acid. It was therefore decided to try the effect of differing solvents on the sign of the product. As it was desirable that the reactions should take place in homogeneous solutions, only such solvents as will dissolve the ammonium salts of the phenylchloroacetic acid were available. It was found that in all the cases examined, with the exception of water and liquid ammonia, the final acid separated out. The results may be stated as follows: Change of sign occurred in solutions of water, phenyl cyanide, *n*-butyl alcohol, *n*-heptyl alcohol, and benzyl alcohol. No change of sign occurred with methyl alcohol, ethyl alcohol, propyl alcohol, isopropyl alcohol, acetone, and liquid ammonia. From this it will be seen that the point at which the sign changes lies somewhere between *n*-butyl and *n*-heptyl alcohols. It has not so far been possible to examine the conditions in solutions of any of the intermediate alcohols, owing to the difficulty in obtaining the necessary alcohols. It is suggested that the solvent affects the active mass of the entering group on one plane or other of the molecule, and hence has a directing influence on the position which it takes up. It is certain, however, that the chlorine does not first go out and the replacing group then take its place, otherwise there would be produced a perfectly racemised product. The other paper was by Dr. Alexander Scott on *Some Laboratory Notes*. These were some points of interest which had been noted in the work the author has been doing in researches on atomic weights. The first was on the boiling-point of bromine. There are a series of results to be found which differ by as much as 5° C. It was found very difficult to get bromine perfectly dry. This was eventually done by distilling over anhydrous barium oxide prepared from the hydrate. The result obtained with this sample was 57.9° C. at 739 mm. pressure. For the density the author finds 3.1893. To obtain perfectly pure nitric acid it was found best to dilute with an equal volume of water and then add potassium permanganate and distil. By this means a nitric acid perfectly free from chlorine was obtained. To prepare perfectly pure silver the author prepares a small quantity of silver oxide and boils this in a solution of silver nitrate, thereby removing all metallic impurities. The silver nitrate so obtained is reduced by means of ammonium formate, thereby giving a chemically pure silver.

TRADE WITH FRANCE.—Dr. Alfred S. Gubb, writing to "The Lancet" from Aix-les-Bains regarding impediments to a medical *entente* with France, mentions that there is a duty on catalogues of English makers of surgical instruments. He adds: "On several occasions I have had to pay 2*fr.* 80*c.* on the big bi-annual numbers of THE CHEMIST AND DRUGGIST. It is obviously impossible to carry on commercial propaganda under these conditions."

Garraway's Coffee House.

ALTHOUGH various brief references have been made to the celebrated Garraway's Coffee House in past volumes of THE CHEMIST AND DRUGGIST, this is the first occasion on which a sketch of the building has been published in this journal.



GARRAWAY'S COFFEE HOUSE.

There are still a few wholesale druggists and brokers in business who attended the drug sales which were regularly held at Garraway's, as it was not until 1866 that the building was finally closed and pulled down, great alterations and improvements being made in 'Change Alley at that period. The site now forms the rear of Martin's Bank in Lombard Street. The building at that time was about 120 years old, and of its predecessors there are records in existence dating back more than two centuries. As a matter of fact, the proprietor of the house about the middle of the seventeenth century, whence dated its celebrity, was a certain Thomas Garway, "tobacconist and coffee man," who was the first to retail tea (then known as "tay") in England, recommending it as a cure for all diseases. This was in 1657. The personality of Thomas seems to be obscure, and there is little record of his doings, but he was none the less an advertiser. In a single sheet in the Sloan Library in the British Museum it is recorded in Ellis's Letters that

"In the year 1657 tea hath been sold in the leaf for 6^l., and sometimes for 10^l., the pound weight; and in respect of its former scarceness and dearness, it hath been only used as a regalia in high treatments and entertainments and presents made to princes and grantees, till in the year 1657 the said Thomas Garway did purchase a quantity thereof and first publicly sold the said tea in leaf and drink, made according to direction of the most knowing merchants and travellers in those Eastern countries; and upon knowledge and experience of the said Garway continued care and industry in obtaining the best tea and making drink thereof, very many noblemen, physicians, merchants and gentlemen of quality have ever since sent to him for the said tea and daily resort to his house in Exchange Alley aforesaid to drink tea thereof; and to the end that all persons of eminence and quality, gentlemen, and those who have occasion for tea in leaf may be supplied, these are to give notice that the said Thomas Garway hath tea to sell from 16s. to 50s. the pound."

In the year of the Great Fire (1666) Garraway's was swept away, and in 1673 a new building was erected, the name being continued. It then became an auction mart for wines, which were sold by the candle—that is, biddings were received so long as an inch of candle was burning. When the flame expired the exciting moment arrived that

is now denoted by the sharp rap of the auctioneer's hammer, and the last and highest bidder was declared to be the purchaser. 'Change Alley and its vicinity was where the wild speculation of the South Sea Bubble and other equally mad schemes were originated. At this time Garraway's was turned into an open Stock Exchange. It was here in 1688 that the word "stockjobber" was first used. So universal did the mania become that persons resorted to 'Change Alley for their physic, and it became a City resort. Indeed, many physicians had their special seats in the coffee-room at Garraway's, where patients met and consulted them. The celebrated and eccentric Dr. John Radcliffe (1685), who rose to the highest practice in London, came daily, at the hour when the Exchange was full, from his house in Bow Street, then a fashionable part of the town. He was to be found surrounded by patients, surgeons, and apothecaries at a particular table. Many anecdotes are told of the doctor. It was at Garraway's that he heard that one of his bubble projects had burst, upon which he had ventured no less than 5,000 guineas; but he took the news with great coolness, saying, "Why, if 'tis so, 'tis; I must go up five thousand pairs of stairs more." Again, in March 1748, Garraway's was destroyed by a fire which commenced in a peruke-maker's in Exchange Alley and destroyed between ninety and a hundred houses on Cornhill. At the period of our sketch, according to the Hartridge Collection of old London pictures, the ground floor of Garraway's was one large room which occupied the whole area of the building. It was furnished with cosy mahogany boxes and seats, and the floor was sanded. On entering, the bar was immediately on the right hand, almost behind the door, and at the extreme end of the room on the right was a large old-fashioned fireplace. Facing the door were broad stairs leading upwards to the auction-rooms and downwards to the cellars, where many rows of bins of old port, Madeira, and sherry reposed, in process of ripening. It was the great place of rendezvous in the City, as in those days practically all the overseas business was done in coffee-houses, and each trade had its particular resort, Garraway's being devoted to produce. Several years before Garraway's was pulled down the drug auctions had been transferred to the Corn Exchange Tavern in Mark Lane, and in 1893 they found their present home in the London Commercial Sale Rooms.

Wool-fat Substitutes.

In nearly all the European pharmaceutical papers, especially those of Sweden, Switzerland, and Holland, recipes are published for substances which can be used in the place of wool-fat, which is very scarce in all the countries that were in the habit of obtaining it from Germany. The stocks in Germany itself appear to be exhausted now. The "Pharm. Zeitung" recommends as a wool-fat substitute a mixture of 3 per cent. of stearic anilide and 97 per cent. of vaseline (fetrone). It is also proposed to make use of Chinese wood-oil for this purpose. According to a German patent Chinese wood-oil can be converted into a solid fat by heating it to 300° C. for a short time. Three parts of this solid fat dissolved in 7 parts of ordinary liquid Chinese wood-oil by warming and then adding 3 parts of wax gives a product which is said to have exactly the same physical properties as lanoline. Professor P. van der Wielen, in dealing with the matter in the "Pharmaceutisch Weekblad," confesses that there is no really good substitute for wool-fat. Of many combinations that have been tried, he recommends as one of the best substitutes a mixture of 20 parts of white beeswax and 80 parts of fresh linseed oil, which absorbs about 170 parts of water. Other mixtures which answer the purpose fairly well are the following: (1) Linseed oil, 20 parts; white vaseline, 20 parts; and spermaceti, 5 parts. This absorbs about 100 per cent. of water. (2) Yellow beeswax, 10 parts; wool-fat, 25 parts; Chesebrough vaseline, 45 parts; water, 25 parts. (3) Yellow beeswax, 15 parts; yellow Chesebrough vaseline, 60 parts; and water, 25 parts. The Swedish pharmaceutical paper "Svensk. Farm. Tidskr." publishes a recipe for "Cenolinum anhydricum," which consists of white vaseline 90 parts, cetyl alcohol 3 to 5 parts, and wool-fat 10 parts. Cenolinum is a mixture of equal parts of cenolinum anhydricum and water. According to Professor van der Wielen a substitute of the same properties is obtained without the cetyl alcohol. Another recommendation is for a substance called "Cerolanum anhydricum," consisting of yellow beeswax 7 parts, wool-fat 15 parts, and white American vaseline 78 parts. Cerolanum is a mixture of 70 parts of cerolanum anhydricum and 30 parts of water. In the "Schweiz. Apoth. Zeitung" a correspondent prefers a mixture of yellow beeswax 3 parts, solid paraffin 7 parts, and yellow vaseline 90 parts.

Medical Gleanings.

Trench-fever.

CAPTAIN J. W. MCNEE, M.D., Lieutenant Arnold Renshaw, M.D., Captain E. H. Blunt, M.B., and Colonel Sir Wilmot Herringham contribute to the "British Medical Journal" (II., 1916, p. 225) a paper on trench-fever, a form of relapsing fever which occurs with the British Forces in France. It is concluded that the disease is a definite entity and of an infective nature. There are two clinical types, but these are only varieties of the same disease. It is thought that the virus is contained within the blood-corpuscles themselves, evidence being given to support this view. It is suggested that the disease is communicated by flies or parasites.

The Simpson Light.

DR. E. G. FRENCH ("The Lancet," I., 1916, 240), in further reference to the therapeutics of Simpson light (see *C. & D.*, January 22, p. 46), states that these rays have been employed in numerous cases during eighteen months. Among the cases were forty-nine in which the patients were suffering from venereal lesions. After giving particulars of the method of applying the rays, Dr. French states:

The first effect noticed in the case of ulcers, especially when the focal rays are employed, is the almost immediate discharge of plasma and pus. Subsequently the exudate natural to the condition tends to diminish, the tissues take on a more healthy appearance, and regeneration soon occurs. After a very few treatments the ulcers begin to assume a totally different appearance. Healing may begin at the margins or at the centre. Ordinary scar tissues never seem to form. Several other conditions have been successfully treated with the Simpson light—namely, rodent ulcers, lupus, acne, sycosis, herpes, ringworm, alopecia, localised eczema, etc.

Eusol.

In the last volume of *THE CHEMIST AND DRUGGIST* full details were given as to the preparation of eusol, and it is important that the method of manufacture should not be altered without a full consideration of the consequences. Mr. R. Glode Guyer (Duncan, Flockhart & Co.), in "The Lancet" (I., 1916, 264), calls attention to this point. He states that eusol is a very complex mixture, consisting of hypochlorous acid, borate of calcium, and chloride of calcium, and that to alter one of the constituents, as has been suggested, would disturb the balance of the composition as prescribed by Professor Lorrain Smith and his colleagues. This statement is backed up by the evidence of a series of experiments which Mr. Guyer conducted. The "British Medical Journal" (I., 1916, p. 171) publishes, by request of the Medical Research Committee, an article on the uses of hypochlorous acid in surgery, which also deals with the preparation of eusol.

Wound-dressing.

SIR BERKELEY MOYNHAN, at a meeting of the Harveian Society of London, in discussing the treatment of gunshot-wounds, stated that Dr. Dakin has succeeded after many trials in preparing chloramine-gauze—a gauze in whose meshes powdered chloramine [toluene-sodium-sulphochloramide] is held. This gauze is made in the hope that when introduced into the wound the discharges would dissolve the powder little by little, and carry it to all parts of the surface with which they come in contact. Sir Berkeley also called attention to the use, as a wound-dressing, of hypertonic salt solution—i.e., a solution consisting of 5-per-cent. salt and $\frac{1}{2}$ -per-cent. sodium citrate. Chloretone is added to overcome any tendency to cause pain. This solution is the outcome of work done by Sir Almoth Wright. A variant of Wright's method, practised by Colonel Lawson and many others, consists in the application to deep anfractuous wounds of a gauze wick into the centre of which "tablets" of salt and sodium citrate are placed. There are wounds so placed and of such depth that it is impossible to dress them by the methods applicable in surface-wounds. Into the remote recesses of these one or more saline "tablets" may be placed, either wrapped in gauze or placed in the extremity of the lumen of a rubber tube, round which a catgut ligature is tied so tightly as to prevent the "tablets" from escaping. The "tablets" excite a profuse discharge of serum, and the gauze or tube need not be changed oftener than once in every twenty-four hours. A. E. Morison and Tulloch advocate the use of a solution of magnesium sulphate in place of sodium chloride.

ISLINGTON BOY SCOUTS have collected, washed, and graded 100,000 medicine-bottles. The bottles are now to be sold to doctors and chemists, and the proceeds devoted towards the purchase of a motor-ambulance for the Army.

N.S.W. Food-standards.

REVISED REGULATIONS under the Pure Food Act, 1908, have been gazetted. The regulations first issued in 1909 (*C. & D.*, September 4, 1909) have been revised at intervals. The changes now made are in accordance with the provisions agreed upon at the second conference on Food and Drugs Standards held at Melbourne in June 1913, and the following notes indicate the chief alterations that have now been made:

Labelling.—The label of any food or drug must now contain on one label the name of the article, name of the manufacturer, place of manufacture or country of origin, and no other words than the actual words required by the Act or regulations. The size of type previously fixed can be proportionately reduced in the case of small packages.

Preservatives.—Saccharin and analogous bodies are no longer included in the list of preservatives, as they are forbidden to be used by Regulation 16. Saltpetre (potassium or sodium nitrate) may be used without being declared in food. The use of glycerin is no longer permitted.

Colouring.—Sarsaparilla and clove cordials are exempted from the requirements of the declaration regarding colouring if only caramel is used.

Stated Weight.—The variation from weight or measure in bottles of 3 oz. in capacity or under is not to exceed $\frac{7}{2}$ per cent. Infants' foods are omitted from the regulation, exempting them from the need for printing on the label a statement of the weight, measure, or number.

Infants' and Invalids' Foods.—Three classes of infants' foods are now recognised. (1) Conforms approximately in proportional composition to human milk when prepared as directed by any accompanying statement. No restrictions are laid on the labelling of this class. (2) Contains starch in proportion not exceeding 1 per cent., but otherwise conforms approximately in proportional composition to human milk. This is to be labelled:

This food should not be given to infants under the age of one month, except under medical direction.

Formerly starch was not permitted in foods for infants under the age of six months. (3) Does not conform to human milk. The label must be in six-point bold-faced sans-serif. The first words must be:

This food should not be given to infants under the age of six months, except under medical direction.

Invalids' foods are now defined as "any food described or sold as an article of food suitable for invalids." The label is to contain a statement of the ingredients contained in it on which the claim of special suitability for invalids is based.

Metallic Contamination.—Regulations 7 and 9 deal with special requirements of metal packages or containers for articles of food, and the presence of arsenic, lead, tin, or other poisonous metals. The proportions of arsenic and lead and tin allowed in various foods are collected under Regulation 9. Arsenic allowed is usually $\frac{1}{100}$ gr. per lb., lead $\frac{1}{2}$ gr. per lb., tin 2 gr. per lb., with certain exceptions where *nil* is allowed.

Gelatin.—If the amount of sulphur dioxide exceeds $\frac{1}{2}$ gr. per lb., the quantity, which may not exceed $3\frac{1}{2}$ gr., must be declared.

Olive Oil.—This is required to have a refractive index of from 1.4605 to 1.4635 at a temperature of 40° C.

Essences.—Essence of lemon must now contain not less than 10 per cent. by volume of oil of lemon, dissolved in ethylic alcohol or in water, or in both. Terpeneless essence of lemon is to contain not less than 0.4 per cent. of citral derived from oil of lemon. Vanilla essence is to contain not less than 50 per cent. by weight of "alcohol." Each 100 c.c. is to contain the soluble matter from not less than 10 grams of vanilla-bean, and shall contain not less than 0.1 per cent. of natural vanillin. The use of the words "vanilla" or "vanilla essence" is forbidden on any package which contains anything which is in any degree a substitute for vanilla.

Potable Water is now elaborately defined, and must be rendered sterile by a process approved by the Director of Public Health or obtained from a source similarly approved and notified in the Government "Gazette." It must contain no more than 100 micro-organisms in 1 c.c., and no pathogenic micro-organisms.

Standard for Drugs.—The British Pharmacopœia is retained, and, against the recommendation of the Conference, the British Pharmaceutical Codex for all drugs mentioned therein, but not in the British Pharmacopœia. But any drug bearing a name recognised in the latest edition of the B.P.C. which does not conform to the descriptions and tests therein must be labelled "Not in accordance with the British Pharmaceutical Codex."

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1916, p. 365.

(From the "Trade-marks Journal," February 16, 1916.)

- "CREVALIN"; for medicinal chemicals (3). By T. Roberts, 33 Deane Road, Bolton. 371,003.
- "DODSON'S LIVER TONE" under portrait of J. G. Dodson ("Dodson's Liver Tone" disclaimed); for a medicine (3). By J. G. Dodson Medicine Co., 88 Nineteenth Street, Wheeling, West Virginia. 370,426.
- "SNOW QUEEN"; for ice-cream powder (42). By Stotherts, Ltd., North Road, Atherton, Manchester. 370,546.
- Tree device with words "PACIFIC BRAND, TAHITI" and "OCEANIC BRAND, BOURBON"; for vanilla beans from Tahiti and Bourbon (42). By H. M. Senior, Ltd., 42 Crutched Friars, E.C. 370,277/8. (Associated.)
- "SPHAGNOL"; for perfumery, etc. (48). By Peat Products (Sphagnol), Ltd., 18 and 19 Queenhithe, Upper Thames Street, E.C. 370,612. (Associated.)
- Miniature of Mary Queen of Scots; for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 370,166.
- "ENGALITH"; for a compressed casein substance (50). By P. Benjamin & S. Slot, 6 East Chapel Street, Mayfair, W. 370,305.

(From the "Trade-marks Journal," February 23, 1916.)

- "ODENITE"; for chemicals (1). By W. Pinchin & Co., 8 Church Street, Shoreditch, E. 371,111.
- "KU-ZERGO"; for chemicals (2). By Adamson & Co., 4 Darling Street, Enniskillen. 370,518.
- "SENSATA"; for paper for deodorising, etc. (2). By the Rachel White Co., Thorckhill Road, Thames Ditton. 371,039.

Label with words "BONNINGTON'S CARRAGEEN IRISH MOSS," etc., and monogram "G. B." ("Carrageen" disclaimed); for an Irish moss medicine (3). By G. Bonnington, Ltd., 257 High Street, Christchurch, New Zealand. 369,818.

"SANECA"; for medicinal chemicals (3) and for food-substances (42). By Cascin, Ltd., Sheepcote Lane, Battersea, S.W. 370,836/7.

"LITHALINE"; for medicinal chemicals (3). By C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, E.C. 371,014.

"ALUVINE"; for medicinal chemicals (3). By the British Drug Houses, Ltd., 22-30 Graham Street, City Road, N. 371,089.

"KENOTRON" and "PILOTION"; for scientific instruments (8). By the British Thomson-Houston Co., Ltd., 83 Cannon Street, E.C. 370,942/3.

Oval device of letters "T. S. L."; for lenses (8). By the Triplex Safety Glass Co., Ltd., 1 Albemarle Street, Piccadilly, W. 371,244.

Device of foot and circle with word "PED IC"; for all goods (11). By the Orthopaedic Foot Appliances Co., Ltd., Oxford House, Oxford Street, W. 371,301.

Label device with lion's head; for London mustard (42). By J. Farrow & Co., Ltd., Fellowes Road, Old Fletton, Peterborough. 367,038. (Associated.)

"SILVER LEAF" on leaf, in silver, blue, and white; for gelatin (42). By B. Cannon & Co., Ltd., Gaunt Street, Lincoln. 370,227.

"DALTONIA"; for food-substances (42). By British Dyes, Ltd., 7 Norfolk Street, Manchester. 371,122.

"MEGOSITE"; for all goods (47). By the Liverpool Borax Co., Ltd., Borax Street, Liverpool. 370,979. (Associated.)

"VINEYARD"; for all goods (48). By the Torula Syndicate, Ltd., 40 Brazennose Street, Manchester. 370,433. (Associated.)

"CLONEICE"; for toilet-articles (48). By the Standard Tablet and Pill Co., Ltd., Hove. 370,812. (Associated.)

Device, including date "August 4, 1914"; for perfumery, etc. (48). By W. Bonser Hayward, 17 Lawrence Lane, E.C. 371,000.

"SOUVENANCE"; for perfumery, etc. (48). By Yardley & Co., Ltd., 105 Carpenter's Road, Stratford, E. 371,229.

(From the "Trade-marks Journal," March 1, 1916.)

"CERAC"; for a medicated cereal food (3). By W. A. Rullman, 74 West Front Street, Red Bank, New Jersey, U.S.A. 370,084.

"MALTOGEN"; for medicinal chemicals (3). By Parke's Drug Stores, Ltd., 65 Harwood Street, London, N.W. 370,237.

"HEROMINT" and "IDYNTABS"; for medicines (3). By the Standard Tablet and Pill Co., Ltd., Hove. 371,032/195.

"PYLOID"; for a medicine (3). By Nancy Stroud, 204 Holland Road, Kensington, W. 371,117.

"VEL-FIN"; for bandages (11). By S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C. 371,284.

Device; for glass (15). By the Derby Crown Glass Co., Ltd., Smalley Road, Little Chester, Derby. 371,223.

"AQUATITE"; for india-rubber beds, bottles, etc. (40). By T. Rowe, 52 Harold Road, Leytonstone. 371,397.

"ARMLET"; for food substances (42). By S. M. Goldie, 103 Fetter Lane, E.C. 370,794.

"IVOSE" and "RUFOSE"; for edible fats and oils (42). By De Bruyn, Ltd., 20 Eastcheap, E.C. 370,911/927.

"HEART BRAND," with heart-shaped device; for alcoholic essences (43). By Duckworth & Co., Chester Road, Manchester. 370,747.

Device with peacock and words "THE BURMAH OIL CO., LTD."; for oils (47). By the Burmah Oil Co., Ltd., 175 West George Street, Glasgow. 370,999. (Associated.)

"MARCELLA"; for perfumery, etc. (48). By C. Thomas & Bros., Ltd., Broad Plain Soap Works, Bristol. 370,753.

"WIN-SOL"; for all goods (48). By V. Shaw, 80 New Hey Road, Oakes, Huddersfield. 370,853.

"SYLLAN"; for a preparation for waterproofing leather (50). By S. C. McNally, 378 Victoria Road, Glasgow. 370,732.

College Notes.

LONDON COLLEGE OF CHEMISTRY.—The students and staff of the London College held a whist-drive in the lecture-room on February 29, when an enjoyable evening was spent. The proceeds were given to the fund for wounded Welsh soldiers.

WESTMINSTER COLLEGE OF PHARMACY.—On March 1 fifty of the students visited the Hounslow works of Parke, Davis & Co. Owing to the large number of lady students now attending the college, thirty ladies were unable to be included in the party. For the first time in the history of the college, the ladies outnumbered the gentlemen, the party consisting of thirty-six ladies and fourteen gentlemen. The party was met at Victoria Station by representatives of the firm and conducted to the works by Tube and tram. On arrival the students were photographed, and then divided into four parties and each being conducted separately over the works, the representatives explaining the various processes of manufacture which were taking place. Following this the students were entertained to tea, after which there was a lecture on serums, vaccines, etc. Mr. Wills proposed a vote of thanks for the instructive and pleasant afternoon which had been provided.

LIVERPOOL SCHOOL OF PHARMACY.—Over forty students of the Liverpool School of Pharmacy, half of whom were ladies, visited the laboratories of Evans Sons Lescher & Webb, Ltd., on March 1. They were conducted through the various departments by Mr. G. W. Marris, head of the laboratories, who explained the various operations which were being carried on at the time. The huge stills used in the distillation of volatile oils attracted a good deal of attention, also the preparation of various drugs previous to being packed in percolators for tinctures and fluid extracts. The Bramah press for pressing tincture-marcs was shown in operation, and was afterwards disconnected in order to show the working parts. A pressure of 3 tons to the square inch can be applied with this apparatus. The various operations in the evolution of the pill, from the original mixed ingredients to the finished coated article, were watched with great interest in the pill and tablet departments; also the wrapping of powders by machinery, the filling of tins with saline, etc., showing what is done to save labour wherever possible. After the visit, which occupied about two hours, Mr. Wellings took charge of the party, and they were escorted to the "Bear's Paw" to tea, at the close of which the Principal (Mr. H. Humphreys Jones) proposed a vote of thanks to the company for allowing the visit, and for the entertainment which followed. Mr. Watkins seconded, and it was carried with acclamation. Mr. Wellings briefly replied. The men students remained at the "Bear's Paw" for the Benevolent Fund smoking-concert. A group photograph of all the students was taken earlier in the day.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

COCAINE-SMUGGLING.

In the House of Commons on March 2, Mr. Austen Chamberlain informed Sir J. D. Rees, M.P., that cocaine has in the past been smuggled into India by Austrian and German and also by other steamship lines. The habit, in a more or less furtive form, exists in Indian seaport towns, and in a less degree in the largest inland cities, but so far as his information goes it is unconnected with the opium-habit or with measures taken to suppress the latter.

NON-POISONOUS DOPE.

Mr. James Rowlands asked the Home Secretary on March 7 the result of the conference between the War Office and Admiralty with regard to the possibility of using a non-poisonous dope.

Mr. Brace replied that the main difficulty in the way of the adoption of the non-poisonous dope is that one of the essential ingredients is not produced commercially in this country at present, and sufficient quantities of it are not available. The Conference considered by what method the supply of the ingredient could be increased, and efforts are being made to arrange for this. The Admiralty experiments are proceeding.

On March 9, Mr. Rowlands asked the Home Secretary whether the French Government has prohibited the use of poisonous dope in France, and whether the dope has to be free of tetrachlorethane and other poisonous spirits.

CO-OPERATIVE SOCIETIES AND INCOME-TAX.

Mr. Currie asked the Chancellor of the Exchequer on March 7 whether his attention has been drawn to the Associated Chambers of Commerce resolution regarding the non-assessment of co-operative societies to income-tax; whether any attempt has ever been made to ascertain even approximately how much of the reputed profit or surplus of 14,000,000*l.* a year arising on the operations of such bodies results from genuine co-operative trading and how much from ordinary competitive trading; and, if not, whether he will consider the practicability of instituting such an inquiry or of otherwise arriving at a fair basis of assessment.

Mr. McKenna said the reply to the first part of the question is in the affirmative. As to the rest, he had nothing to add to previous replies on the same question.

CERTIFIED OCCUPATIONS.

Mr. O'Grady asked Mr. Tennant on March 8 whether his attention has been called to the military authorities opposing an application for exemption under the Military Service Act, 1916, of a Lichfield chemist; and whether, in view of the fact that the chemist in question is engaged in dispensing under the National Insurance Act and therefore employed in an exempted occupation, instructions will be issued to the military authorities not to oppose such claims for exemption when submitted to the Tribunals.

Mr. Tennant replied that his attention had not been called to this case. The mere fact of a chemist being engaged in dispensing under the National Insurance Act and belonging in a general sense to a certified occupation does not make it unnecessary for a Military Representative to oppose an application for a certificate of exemption. If it can be shown either that the man in question is not actually engaged in a certified occupation, or that, although he is so engaged, it is not necessary in the national interest that he should continue in civil employment, the Tribunal can refuse to grant a certificate of exemption.

ANILINE DYES.

On March 9, Sir Richard Cooper, M.P., asked the President of the Board of Trade whether aniline dyes and oils now being sold to customers in Great Britain by the Society of Chemical Industry in Basle as being of Swiss production are, in fact, in a large measure of German manufacture. Sir Richard also asked whether the right hon. gentleman is aware of the advantage that is being taken of our present shortage of aniline dyes and oils by German manufacturers through intermediaries in Switzerland and the United Kingdom to secure a monopoly of the aniline-dye trade of Britain for three years after the termination of the war, and to make it impracticable for British Dyes, Ltd., and other British manufacturers of aniline dyes to compete in this trade; and will he give an assurance to consumers of aniline dyes in Britain that they will be suitably protected after the war against unreasonable contracts which they are being compelled to enter into in

order to secure any supply of dyes for their immediate needs? On Tuesday next Sir Richard Cooper will question the President as to the total imports and exports of aniline dyes and oils in Switzerland, Holland, Sweden, and the United Kingdom in 1913 and 1915.

Notes for N.H.I. Prescription-pricers.

By Jean K. Irvine.

SINCE the publication of my "Notes on Pricing and Checking for 1916," to which kindly reference was made in *THE CHEMIST AND DRUGGIST*, February 5, p. 55, it has been suggested to me that the officially prescribed formula for adjusting the "net" prices of liquid drugs and preparations may with advantage be modified as follows:

Multiply the list price (in pence per pound) by the specific gravity of the liquid, multiply the product by 0.9115 ($700 \div 7680 = 0.911533$), and adjust if necessary to the nearest halfpenny, so as to obtain the price in pence per "pound" of 7000 minims.

Take as an example glycerin at 1*s.* 5*d.* per pound; then $17d. \times 1.26 \times 0.9115 = 19.524d.$ or $19\frac{1}{2}d.$ per "pound" of 7000 minims.

The following simple conversion rules will be found useful for ascertaining the proper price for 480 grains or minims of a drug or preparation:

(1) Multiply the list price (in pence per pound) by 1.097 ($42.5 \div 437.5 = 0.99714285$), and divide by 16; or (1*a*) multiply the list price by 0.0686 ($0.99714285 \div 16 = 0.06857142$).

Thus, in the case of a drug costing 2*s.* 5½*d.* per pound:

$$\text{Ex. (1). } \frac{29.5 \times 1.097}{16} = 2.02d. \text{ per } 3j.$$

$$\text{Ex. (1a). } 29.5 \times 0.0686 = 2.02d. \text{ per } 3j.$$

(2) Multiply the list price (in pence per ounce of 437.5 grains) by 1.097; or (2*a*) increase the list price (in pence per ounce of 437.5 grains) by 0.003*d.* (=difference in price of 437.5 and 480 grains, at ½*d.* per pound) for each halfpenny in the "net" price per pound.

Thus, in the case of a drug costing 2*s.* 5½*d.* per pound, or 1.843*d.* per ounce:

$$\text{Ex. (2). } 1.843d. \times 1.097 = 2.02d. \text{ per } 3j.$$

$$\text{Ex. (2a). } 1.843d. + (0.003d. \times 59) = 2.02d. \text{ per } 3j.$$

In the case of a liquid drug or preparation the "net" list price must first, of course, be adjusted by the prescribed formula, modified as stated above.

Alternatively, to obtain the price for 480 minims:

(3) Multiply the list price (in pence per ounce of 437.5 grains) by the specific gravity of the liquid; or (3*a*) multiply the list price (in pence per pound) by the specific gravity, and then either divide the product by 16 or multiply it by 0.0625 ($1 \div 16 = 0.0625$).

British East Africa.

THIEVES entered the premises of Wardle & Co., Ltd., chemists, Nairobi, on January 22, and stole about fifty rupees. It is thought that the thieves were natives who had been employed at the shop.

DELAYS in obtaining stocks of drugs are common, but we are no worse off than many country districts in England, writes a correspondent. The chief complaint seems to be that larger stocks were not kept, or that orders were not sent earlier.

PROMOTING TRADE.—Nairobi has a progressive Chamber of Commerce, states "South Africa." It was reported at a recent meeting that East London (Cape Province) was inquiring for coconut oil and other oils, and that London had asked for 10-ton parcels of beeswax. A letter was drafted protesting against the delay at Kilindi in the matter of consignments from the coast. The Uganda chemists having complained that their goods have often been removed from the decks of cargo-boats in order to accommodate military explosives, it was decided that a protest should be lodged with the local General Officer Commanding. Chemicals are generally carried as deck cargo, and are therefore the first goods to be unloaded when explosives are to be shipped. The chemists of British East Africa are complaining that depleted stocks are caused by the delays, with the consequence that the general health of the public in British East Africa is endangered.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Inquiry at Manchester.

The Insurance Commissioners held an inquiry at Manchester, on March 2, into representations by the Insurance Committee that the continuance of Piggotts' Cash Chemists, Ltd., Gorton Lane, West Gorton, on the list of persons supplying drugs, etc., to insured persons was prejudicial. The Committee of Inquiry consisted of Mr. J. Fischer Williams (barrister), in the chair; Mr. J. Rymer Young (Warrington), a member of the Council of the Pharmaceutical Society; and Mr. E. R. Abbot. Mr. Piggott, managing director of Piggotts' Cash Chemists, Ltd., was not present, nor was the company otherwise represented.

Mr. J. E. Lilley, for the Manchester Insurance Committee, in opening the case, said that the complaints against the company are that erasures and additions were made to insurance prescriptions, the sole purpose of which was to increase the amount submitted for payment. There were also a large number of prescriptions in the handwriting of Piggott. The irregularities dated from the time that Piggott turned his business into a limited company (see *C. & D.*, June 21, 1913, p. 48). Of 16,742 prescriptions examined, 3,194 were found to have been tampered with.

Mr. G. A. Mallinson, until recently Hon. Secretary of the Pharmaceutical Committee, gave evidence that as checker he first discovered alterations in prescriptions in October 1914. As examples of the alterations, the following prescriptions, taken at random, were produced:

- (1) Liq. morph. 5j. altered by a stroke to 5ij.
- (2) Pil. hyd. iod. pil. xx. altered to xxiv.
- (3) Tab. naso-pharyngeal xx. altered to xxiv.; caps. blaud. xx. altered to xxx.
- (4) Tab. phenacet. eo. x. altered to xij.
- (5) Tinct. digit. aq. showed an erasure of "aq."
- (6) Fer. et ammon. cit. 5ij., etc., altered to 5iij.
- (7) Liq. nitrosus 5iv. In this case the writing was not good, and it was rewritten to read vin. antimon.
- (8) Fer. et quin. cit. 5ij. altered to 5iij.
- (9) Mist. fer. et arsen. conc. 5ss. altered to 5ij.
- (10) Pot. acet. 5ij. altered to 5iij.
- (11) Vin. ipec. 5ij. altered to 5iij.

In two of the prescriptions the alterations were made in a copying-ink pencil of a different shade, and, at the Chairman's suggestion, the difference was accentuated by means of a piece of damp blotting-paper. Mr. Mallinson estimated that the increase in the charges for the prescriptions due to the alterations would be about 10% to 11%.

Medical witnesses were then called, who testified that the alterations were not in their handwriting.

Dr. A. C. Turner, whose dispenser Piggott had been for ten years, was one of these witnesses. He said that sometimes patients with chronic complaints would obtain their medicine from Piggott, who would notify him afterwards that the medicine had been dispensed.

The Chairman commented on the laxity which this practice showed, and Mr. Young pointed out that it forced the insured person to go to a particular chemist, contrary to the spirit of the Act. A letter from Piggott to the Insurance Committee mentioned that this practice existed, but that he had no idea that he was doing wrong. Dr. Turner estimated that Piggott had written from 500 to 600 prescriptions from his dictation.

Mr. Lilley, in asking for a recommendation that the company should be removed from the panel, said that the total value of the 16,742 prescriptions dispensed by Piggott was 700%. He asked that the expense of the inquiry should not be borne by the administrative expenses.

The Chairman said he had no power to assess costs, although he sympathised with Mr. Lilley's remarks. The findings of the Committee will be made known in due course.

Reports from Local Centres.

With special reference to the supply of medicines and appliances.

ENGLAND.

Gloucester.—The Insurance Committee at its meeting on March 6 resolved to pay 95 per cent. of the chemists' accounts as rendered.

Manchester.—A circular has been issued to the panel chemists asking them to carry out the wishes of the Insurance Committee regarding the separation of the prescriptions into bundles of fifty when there are more than fifty of any one doctor's prescriptions sent up. As this entails a great amount of extra labour on the part of the chemist,

there has been some objections made, but it has been decided to carry out the wishes of the Committee for a period of three months, when it is hoped the Pricing Committee will be in a better position to cope with this work. The Insurance Committee has agreed to sign a delivery-note when desired to do so, or in the case of scripts by post when a stamped addressed postcard is enclosed, to sign same and return it to sender. The Pharmaceutical Committee in a circular has impressed upon panel chemists the importance of charging Tariff rates for bottles for Insurance prescriptions.

Middlesex.—A meeting of the Insurance Committee was held on March 6 at Westminster, Mr. W. S. Glyn-Jones, M.P., presiding. The Pharmaceutical Sub-Committee reported that they had considered a complaint by an insured person against the manager of a chemist's branch establishment. The complaint was that, although the insured person went direct from the doctor with his prescription, he was always told he was very late. On one occasion he went on Sunday and was abused by the chemist in charge of the branch. The Sub-Committee found that the statements in the complaint are true, and recommended that the chemist be informed that his explanation is unsatisfactory, and that he be censured and informed that insured persons are entitled to be treated with civility. The report of the Committee was adopted. On the recommendation of the General Purposes Sub-Committee the following payments were directed to be made to chemists: In accordance with the list submitted (1915), 3.651*l.* 3*s.* 2*d.*; ditto (1916), 1.621*l.* 3*s.* 6*d.*; emergency settlement (1914), 11*l.* 3*s.* 6*d.* It was directed that an advance of 96*l.* be made to the Joint Committee for the Pricing of Prescriptions (South-Eastern Division), making the total sum advanced to the Committee in respect of the current year 246*l.*

Northumberland.—The Insurance Committee on March 3 considered the question of the hours of business of the Hexham chemists who are on the dispensing panel. It was urged that the chemists should keep open another hour, but eventually the question was referred to the Medical Benefit Sub-Committee.

Salford.—For the year ended December 31 last the chemists' accounts amounted to 5,794*l.* 5*s.* 9*d.*, and the estimated sum available was 6,474*l.* The accounts are to be paid in full. During last November 26,217 prescriptions were dispensed at an average cost of 4.8*d.*

Sheffield.—Councillor Neal, on his election as Chairman of the Insurance Committee, gave some figures from the local standpoint on the working of the National Insurance Acts. The first count in 1912 of insured persons in Sheffield was 149,320; before the outbreak of war it had risen to 175,642. Persons who have joined the Forces number 13,000, against which there had been an influx of workers—*c.g.*, refugees—which brought the number at the beginning of the year to 170,702, nearly a third of the population of the city. According to the last available figures, 51,713*l.* was paid to the medical men for the year, and last year's chemists' accounts amounted to 12,422*l.* During the working of the Acts 14,088 persons have received hospital treatment for consumption.

Smethwick.—The Medical Benefit Sub-Committee recommended that the application of the Pharmaceutical Committee for a modification of the closing hours (8.30 P.M. in place of 9 P.M., Wednesdays 6.30 to 8.30 P.M.) be agreed to. The application for an allotment for the expenses of the Pharmaceutical Committee, which is to be deducted *pro rata* from chemists' accounts, was also agreed to. The Finance Sub-Committee recommended the payment on account for January of chemists' dispensing at the rate of 5*l.* per script. At the meeting of the Insurance Committee these recommendations were adopted.

Southport.—A meeting of the Insurance Committee took place on February 29, when authority was given to the Chairman and Clerk to draw the necessary cheques for payment of the advances to the chemists in accordance with the scheme and instructions of the Commissioners. The Medical Benefit Sub-Committee placed on record its appreciation of the work done by Mr. E. J. George during the period he has been responsible for the checking of the chemists' prescriptions. A letter from the Secretary of the Pharmaceutical Committee was read, in which a previous application for an allotment of 43*l.* 15*s.* for administrative expenses of the Committee during the year 1916 was withdrawn, and an application made for 21*l.* 17*s.* 6*d.*, the amount to be deducted *pro rata* from chemists' accounts in December next. This was agreed to.

Staffordshire.—At a meeting of the Insurance Committee last week a letter was read from a chemist, stating that a panel doctor in his district prescribes mostly stock mixtures, and inquiring if this is allowable. The Clerk was

instructed to write to the chemist and the doctor in question, informing them that the latter has no right to prescribe stock mixtures, but that the details of each prescription must be set out. A letter was also read from a firm of chemists on the panel, asking to be allowed to employ an unqualified assistant at a branch shop at Bradley, which it is proposed to use as a temporary depot where prescriptions can be left and afterwards collected for dispensing at their head establishment. The Committee held that a whole-time qualified chemist must be appointed.

Wiltshire.—It was reported to the Insurance Committee on February 23 that for the last quarter of 1915 there were 21,582 prescriptions, at a cost of 745*l.* 7*s.* 4*d.*, against 20,740, at a cost of 657*l.* 11*s.* 8*d.*, in the corresponding period of 1914, the average price being higher on account of the increased price of drugs. The Panel Committee asked for practitioners to be allowed to make use of "Rep. mist." if and when the date of the original prescription is stated, and if used only during the current month. This was referred to the Pharmaceutical Committee.

Worcester.—The Insurance Committee has decided to make advances for January to the chemists at the rate asked for by the pharmacists—5*d.* per script. The average last year was about 9*d.*

Associations' Winter Session.

Other meetings are reported under Insurance Dispensing Reports.

British Pharmaceutical Conference.—The statement of receipts and expenditure and balance-sheet has been sent to members of the British Pharmaceutical Conference. There is a balance in hand of 127*l.* 10*s.* 6*d.*, which is an exceptional position for the Conference. The receipts are made up of subscriptions, 305*l.* 12*s.*; sales of "Year-book," 18*l.* 18*s.* 3*d.*; advertisements, 71*l.* 17*s.* 2*d.*; interest, 1*l.* 17*s.* 2*d.*. The expenditure on the "Year-book" amounted to 185*l.* 17*s.* 6*d.*; editor's salary, 75*l.*; other smaller items for commission, postages, and journals making up the balance. Particulars are also given of the Bell & Hills Fund and the Research Fund.

Aberdeen.—The annual meeting of the Aberdeen Pharmaceutical Association was held on March 1 in Robert Gordon's Technical College, Mr. John R. Reith (President) in the chair. The annual report stated that the Association embraces in its membership most of those in business in the city. The financial statement showed a balance of 41*l.* 13*s.* 10*d.*. Both reports were approved of. Office-bearers for 1916-17 were elected as follows: *President*, Mr. J. R. Reith; *Vice-President*, Mr. A. F. Dugan; *Treasurer*, Mr. C. Simpson; *Secretary*, Mr. Marshall K. Watt, 28 Esslemont Avenue; *Auditor*, Mr. D. Anderson; additional members of Executive, Messrs. Andrew Craig and Wm. Giles. The following were elected members of the Association: Mr. Charles Chree, Mr. A. M. Gair, Mr. R. Shaw, and Mr. W. Watt.

Blackpool.—The monthly meeting of the Blackpool and Fylde Pharmacists' Association was held on March 3, Mr. J. Laurie (President) in the chair. With regard to the effort to fix minimum retail prices for several proprietary articles which are severely "cut," the Hon. Secretary (Mr. D. J. Bailey) reported that the result was negated by Boots. Ltd., refusing to agree to the prices fixed. A donation of 1*l.* to the "Peak Testimonial Fund" was voted.

Ealing.—A meeting of the Ealing Pharmacists' Association was held on February 29 at Buol's Restaurant, Ealing, the President (Mr. S. W. Harrison) in the chair. After the minutes, some questions arising out of the Secretary's report on attesting of pharmacists and methods of appeal were answered by Mr. Skinner. The Association pledged itself to use its utmost endeavours to return Messrs. Deakin and Skinner at the forthcoming election for members of the Council of the Pharmaceutical Society. Mr. C. J. G. Bunker gave an interesting exposition on the work of the *Proprietary Articles Trade Association*, and was followed by Mr. W. Johnston. Several questions arose, and Mr. Johnston replied, promising to carry to the P.A.T.A. Council the suggestions made. A vote of thanks was given to Messrs. Bunker and Johnston.

Gloucestershire.—A meeting of the Gloucestershire Pharmacists' Association was held on February 24, Mr. H. Burton Clark (Vice-President) in the chair. Correspondence relative to certificated dispensers opened up a discussion on the qualification of assistants and the desirability of establishing a legal status for assistants by the Pharmaceutical Society. Mr. W. Palmer advocated the use of the present term "Minor" for an assistants' examina-

tion, the Major examination slightly modified to be the qualifying one. It was agreed to arrange for an address by Mr. P. F. Rowsell on March 30 dealing with the *Proprietary Articles Trade Association*.

Great Yarmouth.—A meeting of the Great Yarmouth Pharmaceutical Association was held on March 2, Mr. A. E. Richmond in the chair. There were also present six members and Mr. J. Shearman (Hon. Secretary). A discussion on Insurance matters and the sale of laudanum took up most of the evening.

Liverpool.—The Liverpool Chemists' Association and the Birkenhead and Wirral Pharmacists' Association held a joint smoking-concert at the Bear's Paw, Lord Street, Liverpool, on March 1. Mr. William P. Evans (President of the Liverpool Chemists' Association) occupied the chair, and was supported by Mr. F. C. Cooling (President of the Birkenhead Association), Messrs. H. Humphreys Jones, L. Moreton Parry, John Bain, Harold Wyatt, W. H. Clubb, and others. Mr. William P. Evans, in his opening remarks, said that no apology was required in a time of war for holding a concert which had for its object the amelioration of the hard lot of some of the unfortunate members of the craft. He had the privilege of presiding at a similar function about two years ago, at which a substantial sum was realised, and he hoped the present occasion would eclipse all previous records financially. Mr. L. Moreton Parry, a member of the Benevolent Fund Committee, gave a short address and appealed for a handsome collection. He said that the old system of giving grants of 50*%* yearly is now changed. Grants are now given according to the merits of the various cases considered. These vary from 40*%* to 20*%*, and less annually. The annuitants number forty-one, but there are over a hundred other applicants. Mr. Parry also spoke of the Orphan Fund, which is helping to maintain children in orphan asylums. As a consequence of the appeal, over 10*l.* was collected in the room, and, with the tickets and subscriptions, a sum of over 50*l.* is assured for the Benevolent Fund. Mr. W. P. Evans thanked those present for the handsome response to his appeal. A vote of thanks to the Chairman was proposed by Mr. J. Luther Hirst and seconded by Mr. H. Humphreys Jones, and to the Hon. Secretaries by Mr. W. H. Clubb, seconded by Mr. Wyatt. An excellent programme of music, recitations, etc., was given during the evening, and was much enjoyed by a very large audience.

London (N.).—A meeting of the North London Pharmacists' Association was held on March 2 at St. Padams, Holloway, the President (Mr. A. W. Bromley) in the chair. In the report of the month the Secretary (Mr. Herbert Skinner) reviewed the payments for Insurance dispensing for 1915, and called attention to the fact that the London County Association have adopted the resolution of the February meeting and remitted it to the Associations Executive, which body is to take action. The action of a soap firm who had been approached for the purpose of placing their products on the protected list of the *Proprietary Articles Trade Association* was again considered, and the Secretary was asked to renew his negotiations. Mr. A. H. Jenkin reported on the London Insurance Committee and the projected Conference in May. He moved, and Mr. Skinner seconded, "That it be a recommendation to the Conference to watch over and endeavour to improve the position of pharmacists in the public services, and to do all they can to ensure the granting of commissioned rank to all acting pharmacists in the Army and Navy." Also "That it be a recommendation to the Conference to ensure that all members of the Local Associations Executive be elected members by the Conference." Both resolutions were unanimously accepted and ordered to be forwarded to the respective Executives for London and Middlesex. There was a recrudescence of discussion over "Rep. mist." owing to the recent action of the London Insurance Committee, and the Association decided to stand firmly in its resolve not to countenance "Rep. mist." prescriptions in any shape or form. The President moved, and it was unanimously agreed, "That the Association pledge itself to do its utmost to secure the return of Messrs. Edmund White, J. W. Deakin, and Herbert Skinner at the Council election in May." A paper on "Bookkeeping" by Mr. C. W. Brumwell was, by request, postponed. A discussion on the *Proprietary Articles Trade Association* and its constitution was joined in by Messrs. Hearle, Jenkin, Kemp, Hewitt, Brumwell, Skinner, and Shirliff. It was ultimately decided to postpone the question of action to a later date.

Manchester Assistants.—A successful social was held by the Manchester Chemists' Assistants' Association at the Clarion Café, Market Street, on February 23, over eighty members and friends being present. The President (Mr. Wm. Kirby) was in the chair. The artistes were: Messrs. Smith (tenor), Farrow (humourist), Hudson (recitals), Ruscoe

(songs), Auty (humorous songs), Axon (conjuring), and Miss Whitehead (songs). Mr. Smith was the accompanist. Refreshments were served during the interval.

Middlesbrough.—A meeting of the Middlesbrough Chemists' Association was held on March 2, Mr. Owen in the chair. The alteration in the position of laudanum (B.P. 1898) in the Poison Schedule was discussed, and it was recommended that so far as possible when an entry is made in the poisons register for this article the minimum charge should be threepence.

Newport (Men).—A meeting of the Newport Pharmacists' Association was held at the Shaftesbury Hotel on March 1. Mr. A. Gratte presided, and there were also present six members and Mr. Badgett (Hon. Secretary). A circular was read from Mr. Breece, of Streatham, with regard to the formation of a Chemists' Union. The members considered a letter from the Insurance Committee with reference to contributions to the checking of prescriptions for 1915. It was resolved that the Committee be informed that the Association are not prepared to consider the question further, as in their view the excessive prescribing in the town had been a negligible quantity. The meeting further decided to ask the Insurance Committee for double dispensing fees after closing hours as defined by the Shops Act Order. It was suggested that linseed-meal be included in the Drug Tariff.

Peterborough.—At the annual meeting of the Peterborough Pharmacists' Association, at the Angel Hotel, the following officers were elected for the ensuing year: *President*, Mr. H. S. Turner (St. Ives); *Vice-Presidents*, Mr. F. W. Cannon (Baldoek), Mr. J. W. Hall, and Mr. H. E. Noble (Peterborough); *Hon. Secretary*, Mr. C. Hanson; *Treasurer*, Mr. J. W. Bodger; *Solicitor*, Mr. W. H. Sturton; *Auditor*, Mr. Frank Sturton. The Committee was re-elected *en bloc*.

St. Helens.—The monthly meeting of the St. Helens Pharmacists' Association was held at the Fleece Hotel on March 1, the President (Mr. Kesterton) in the chair. Mr. Phillips, of Wigan, representing the Pharmaceutical Checking Committee, addressed the meeting, and pointed out the advantages to be gained by pharmacists allowing their prescriptions to be checked by the Society. The members decided to take advantage of the scheme. Concern was felt over the probable future advance in the price of spirit. It was thought the Society should approach the Government suggesting that spirit should not be raised in price to pharmacists. A letter was read from the Public Pharmacists' Association opposing the registration as chemists and druggists of persons holding the apothecaries' certificate. The letter met with the full approval of the members.

Wolverhampton.—The annual meeting of the Wolverhampton Chemists' Association was held on February 23. The retiring President (Mr. E. E. Hall) and Mr. F. J. Gibson, J.P., were unable to be present through indisposition. The Secretary read the annual report and the Treasurer the annual statement of accounts, both of which were approved of. Mr. E. H. Bowdler was elected *President* and Mr. C. M. Warner *Vice-President*. Mr. J. H. Coleman was re-elected *Secretary*, and Mr. S. Phillips *Treasurer*. Messrs. Dunn, Gibson, Hall, M. R. Warner, and F. A. Wilcock were elected as the *Committee*. Messrs. Cox and Hibbert were elected members. The sum of three guineas was voted to the Benevolent Fund. Councillor F. A. Wilcock was congratulated upon his appointment as Chairman of the Parks and Baths Committee of the Town Council. The Secretary stated that the Pricing Committee has held several meetings, and that the scheme is working well.

Business Changes.

Authenticated notices are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

TAYLORS' DRUG CO., LTD., have opened a new pharmacy at 71 West Street, Gateshead.

A CHEMIST'S SHOP has been opened at King's Parade, Lower Mortlake Road, Mortlake, as the "Mortlake Pharmacy." Attendance is only given during certain hours of the day.

THE BRANCH BUSINESS of Mr. A. B. Arnott, chemist and druggist, at 32 Lochgelly Road, Cowdenbeath, Fife, has been taken over by Mr. H. G. McKilligin, who has also been appointed sub-postmaster.

THE PARTNERSHIP existing between Mr. H. B. Helbing and Mr. F. W. Passmore as analytical and consulting chemists at 81 Queen Victoria Street, London, E.C., has been dissolved by mutual consent. Mr. Passmore has acquired the goodwill, and will practise in his own name at the same address.

Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., March 9, 6.30 p.m.

ALTHOUGH business continues quiet in the chemical and drug markets, a fair amount of interest has been shown in a number of products, and the bulk of price-changes is again upwards. Our remarks in regard to the rise in spices in our last issue may be emphasised this week, a further advance having taken place in ginger, chillies, nutmegs, cassia, pimento, etc. Among chemicals, acetanilide is again dearer and in good demand. Chloroform has been advanced 3d., and bismuth metal by 1s., the salts following in proportion. Citric and tartaric acids are both strong and dearer, owing to scarcity. Hexamine is rather firmer; formaldehyde and milk-sugar dearer, the former owing to a large demand which can only be partially filled. Opium is inclined to the easier side; morphine and codeine steady; strychnine is 2d. dearer. Chinese crude antimony is very scarce. Methyl salicylate is lower; barbitone and vanillin are easier. Sudan acacia gums and Chinese galls are higher; ergot is easier. The principal movements have been as under:

Higher	Firmer	Easier	Lower
Acetanilide	Bergamot oil	Anise oil, star	Balsam peru
Antimony	Cassia lignea	Barbitone	Balsam tolu
(Ch. cr.)	Citric acid	Ergot	Ipecacuanha
Bismuth metal	Coconut oil	Rhubarb	(Cartagena)
(cannabis indica	Formaldehyde	(Shensi, Canton)	Methyl
Cassia fistula	Ginger (Coch. and Cal.)	Vanillin	salicylate
Chillies	Hexamine	Wax, bees' (Jam.)	
Chloroform	Milk-sugar		
Dragon's-blood (reed)	Pimento		
Elemi	Soda nitrate		
Galls (Chinese)			
Gum acacia (Sudan)			
Peppers			
Strychnine and salts			
Tartaric acid			
Turpentine			

ACETANILIDE is again dearer with a fair business, holders asking 8s. 6d. to 8s. 9d. per lb.

AGAR-AGAR is firmer, the sales including January-March shipment at 2s. 1½d. c.i.f. for No. 1 Kobe strip, and No. 2 at 2s. 0½d. c.i.f.; the spot value of No. 1 Kobe is 2s. 8d. In the drug-auction 11 bales sold at from 1s. 8d. to 2s. per lb.

AMMONIA SULPHATE is steadier at 16l. 5s. per ton net naked at works London for 25-per-cent. ammonia for prompt delivery; Hull prompt is 16l. 15s.; Liverpool is 16l. 17s. 6d. to 17l.; and Leith is 17l. per ton, less 3½ per cent. in bags f.o.b.

ANTIMONY.—Chinese crude on the spot is practically unobtainable, and for limited quantities from 127l. 10s. to 128l. per ton has been paid. Business to arrive has been done for March-April shipment at 114l. c.i.f. London, and probable further sellers thereat.

ARECA.—Sales have been made at from 35s. to 37s. 6d. per cwt. for good sound.

BERGAMOT OIL is rather firmer at from 11s. 6d. to 12s. c.i.f. for prompt shipment. Tins are now used in place of coppers, the latter not being available.

BISMUTH.—Metal was advanced 1s. per lb. on Wednesday to 11s., but very little is to be had. The salts will probably be 1s. higher and the carbonate 1s. 3d. to 1s. 6d. higher, but prices are not yet definitely fixed.

CAMPHOR (REFINED).—Japanese is steady, sales including 4-oz. tablets for April-May shipment at 1s. 9d. c.i.f., and close at hand 1s. 11d. c.i.f.; spot is scarce at 2s. 2d. to 2s. 3d.

CASSIA LIGNEA is dearer, the sales including February-March shipment at 62s. 6d. to 64s. c.i.f., and March-April at 62s. c.i.f.

CHLOROFORM.—The makers have advanced their prices by 3d. per lb., and now quote pure B.P. in W. qts. at 3s. per lb., 50 lb. and upwards 2s. 11d., 2½ cwt. and upwards 2s. 10d., and 10 cwt. upwards 2s. 9d. These prices are strictly without engagement and the falling clause on contracts, which may be booked over six months, is withdrawn.

CITRIC ACID is a strong market and very scarce, with buyers at 3s. 3d. per lb.

COCAINE.—Although actual spot stuff is scarce, a limited quantity of hydrochloride, due here in about a week, is offered at 23s. to 23s. 6d. per oz. net.

CODEINE is offered somewhat more freely at 22s. per oz. for the alkaloid pure crystals.

COD-LIVER OIL.—The rapid advance in the Norwegian market has not yet led to any pronounced buying on the part of wholesalers, the bulk of whom still prefer to look on. Still higher quotations have been in vogue this week from Norway, the range of values for finest new Lofoten medicinal oil being from about 450s. to 500s., and in one instance 530s. c.i.f. London. Johan Thesen & Co., Bergen, wrote on February 29 that the results up to date are rather poor. In consequence thereof, and as the stocks of last year's oil are extremely small, our market has been excited with prices rising from day to day: 1915 non-freezing steam refined oil, without engagement, is quoted at from 425s. to 450s., and 1916 oil for March shipment at from 450s. to 500s. per barrel c.i.f., London war insurance extra. Our Bergen correspondent writes on February 23 that the cod-fishing still shows rather poor results. In Lofoten the catch has not yet reached one million of cod, against more than two millions at the corresponding date of 1915. For the whole of Norway the total is as follows:

	1913	1914	1915	1916
Catch of cod (millions) ...	10½	10	11½	4½
Yield of c.l.o. (hect) ...	8,000	11,000	12,100	7,300
Livers for "raw" oils (hect.) ...	2,800	3,100	3,100	1,100

As it will be seen, the production of cod-liver oil is this year very large; in proportion to the catch 1,000 barrels oil to a million of cod is generally thought to be a fair result, but this year we have more than 1,500 barrels to a million of fish. The livers are being sold at exceptionally high prices, and as the expenses of the production are also much higher than usual, it is but natural that the prices for refined oil are exorbitant, and will be so during this season.

COPPER SULPHATE.—The usual Liverpool brands are quoted at 47l. 10s. per ton for February-March delivery.

CREAM OF TARTAR is unchanged at 192s. per cwt. for 93-per-cent. powder.

EMETINE remains firm and scarce at from 6s. to 6s. 6d. per gram for the hydrochloride.

ERGOT.—With further arrivals prices are tending easier, Russian offering at 2s. 2d. on the spot.

EUCALYPTUS OIL remains firm, and for good B.P. oils varying between 70 and 80 per cent. cineol from 2s. 6d. to 2s. 9d. per lb. net is quoted.

FORMALDEHYDE.—There is still a good demand, and rather higher prices have again been paid.

GUARANA.—The spot value is about 6s. per lb.

GUM ACACIA is dearer at 60s. per cwt. c.i.f. for fair Sudan sorts.

HEXAMINE.—After a lengthy dull period and easier prices demand has revived, and now 3s. 9d. to 4s. is asked according to quantity.

HONEY remains very firm and a fair business passing privately, including Jamaica at from 35s. to 37s. 6d. and Chilian 32s. 6d. In the drug-auction four casks of pale set Hayti sold at 41s.

LEMON OIL shows a rather better tone in several quarters for arrival business, and 3s. 6d. c.i.f. is a more general quotation, spot offering at from 3s. 6d. to 3s. 9d.

MENTHOL is steady, the sales including Kobayashi-Suzuki afloat at 12s. 4½d. c.i.f. A single case of a new brand (Tomokichi Fujisawa) sold in auction at 12s. 9d. for partly blocky crystals. A further five cases of Kobayashi were offered, and three sold at 13s. 6d., and for five cases of Yazawa 13s. 3d. was wanted.

MORPHINE.—Makers quote from 13s. 3d. to 13s. 6d. per oz. net for hydrochloride, but are not anxious for further orders.

MYRRH.—Quiet. The value of Somali sorts is from 52s. 6d. to 55s., and rough from 47s. 6d. to 50s.

OILS (FIXED).—*Linseed* is steady at 43s. 9d. in pipes and 44s. 9d. in barrels on the spot. *Cottonseed* is unchanged at 42s. 6d. for crude in pipes on spot, 47s. 6d. for refined in pipes, and at from 51s. to 52s. for sweet refined in barrels. *Ceylon Coconut* is firm at 59s. for pipes and 61s. in hogsheds, both on spot; *Cochin* is 60s. to 62s. on spot, and *London pressed* is 51s. 6d. to 52s. Ordinary brown crude *Rape* is scarce and nominal at 52s.; British refined in barrels is 55s. to 55s.; Japan in cases is 47s. 3d. c.i.f. afloat. *Soya* oil is 36s. 6d. for Manchurian in cases on passage, and 36s. 6d. for February-March. *Hull* (spot) extracted is firm at 41s. 6d., and crushed 42s.; *Lagos Palm* is 6d. firmer at 47s. 6d. spot, and in Liverpool 42s. is quoted.

OPIMUM.—Business is practically at a standstill, and prices are unchanged as given last week. The situation in the export market at the moment is governed by the withholding of permits in regard to which questions were raised in the House of Commons last week (see *C. & D.*, March 4, p. 54).

PHENACETIN is in fair demand, holders asking 68s. per lb. **PHENAZONE** is still very scarce at between 73s. 6d. and 75s. per lb.

QUININE.—Very slow in the speculative market, with sellers from second-hands at 3s. 9d. for the usual brands of sulphate. The present is regarded as a favourable time for consumers to secure their requirements. Should the placing of any large orders take place and the market become excited, the opportunity would be lost.

SODA NITRATE is dearer at 17s. 3d. for ordinary and 17s. 6d. for refined; Liverpool is 17s. 6d. and 13s. spot net respectively.

SOY.—Sales of Seuloong are reported at 2s. 4d. per gal., duty paid.

STRYCHNINE AND SALTS have been advanced a further 2d. per oz., owing to the rise in *nux vomica*; makers' quotation for the alkaloid pure B.P. crystals is 2s. 10d. and powder 2s. 9½d. per oz. net; sulphate is 2s. 7d. net.

TARTARIC ACID has advanced a further 2d. per lb. to 3s. per lb., closing strong.

TARTARIC MATERIALS.—According to the Statistical Reports of the Ministry of Agriculture, Industry, and Commerce, the production of wine in Italy, Sicily, and Sardinia was 19,122,950 hectos, against 43 millions in 1914 and 52 millions in 1913. The news from France-Algeria and Spain is still more depressing, France-Algeria having produced but 19 millions of hectos against sixty-two the year before. The production of the tartaric materials is therefore very limited on account of the small production. Business is very difficult owing to the exorbitant pretensions of the producers and the holders of tartars and lees.

London Drug-auctions.

Commercial Sale-rooms,

Mincing Lane, E.C., March 9.

A fair quantity of drugs was disposed of at the monthly auctions, but towards the close the proceedings dragged, and little sold. Star-anise oil was forced off without reserve, opening at lower prices, but closing steady for B.P. oil. The bulk of the Cape aloes catalogued had not been landed, but privately high prices are being paid. Sumatra benzoin sold at steady prices, but Siam was neglected. Balsam perla of genuine quality sold at rather easier prices, as did slightly drossy balsam tolu. Japanese camphor-slabs were about steady, although sold without reserve. Cardamoms were also steady, but generally slow. Fine colocynth-pulp realised high prices, and for reed dragon's-blood competition was particularly keen, and much higher prices were paid. Elemi is selling at dearer rates. Gamboge is still very scarce, and practically no honey was offered. Cartagena ipecac. was forced off at lower rates, but Matto Grosso is unchanged. Kola is quite neglected and in large supply. Menthol remains firm, and for myrrh the tone continues easy. *Nux vomica* is firm. Rhubarb is tending easier both for Shensi and Canton, but High-dried is steady. Grey Jamaica sarsaparilla sold at previous rates, but native Jamaica was quite neglected. Both Tinnevely and Alexandrian senna continued to bring very high prices, owing to scarcity, and beeswax is quiet, although a fair business has been done privately. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Acouite (Jap.).....	10	0	Ammoniacum	3	0
Agar-agar	42	11	Anise	40	0
Ajowan-seed	36	0	Anise, star	36	10
Albumen	35	0	Anise oil, star.....	21	20
Aloes—			Annatto-seed	26	10
Cape	4	0	Apricot-kernels ...	125	3
Scotrine	10	0	Argol	26	26
Zanzibar	7	0	Asafetida	3	0

	Offered	Sold		Offered	Sold
Balsam peru	22	8	Mint oil (Jap.)	35	5
Balsam tolu	8	8	Mustard oil (E.I.)	5	0
Bay oil	1	1	Myrrh	28	0
Benzoin—			Nux vomica	180	*3
Palaembang	10	0	Olibanum	100	12
Siam	20	0	Opium (Persian)	3	0
Sumatra	245	30	Orange oil	9	0
Buchu	43	1	Orange-peel	10	0
Calumba	45	0	Orchella weed	10	0
Camphor	73	63	Orris (Mog.)	12	12
Camphor oil	60	0	Papain	4	0
Cannabis indica	4	*2	Peach-stones	6	0
Cantharides (Ch.)	11	0	Peppermint oil		
Cardamoms and			(Amer.)	24	24
seed	507	97	Poppy-seed	41	0
Cascara sagrada	664	0	Puree	6	0
Cashew-nuts	3	0	Quince-seed	6	0
Cedarwood oil (dm.)	1	1	Rhubarb—		
Cinnamon oil	2	0	Chinese	147	11
Citronella oil	5	4	Sandalwood	21	0
Clove oil	4	4	Sandalwood oil (cs.)	3	3
Cocculus indicus	20	0	Sarsaparilla—		
Copaiba	6	0	Grey Jam	47	38
Colocyth	25	8	Honduras	16	13
Croton-seed	17	0	Lima	17	0
Cubebs	43	0	Mexican	6	*3
Cumin-seed	3	0	Native Jam	34	0
Cuttlefish-bone	41	0	Scabiac	89	0
Dragon's-blood	69	5	Senega	39	3
Egg-yolk	50	0	Senna and pods—		
Elaterium (oz.)	20	0	Alex. and Mecca	172	96
Elemi	19	5	Tinnevely	224	39
Ergot	7	0	Soy	21	0
Galangal	14	0	Spear-mint oil	10	10
Gamboge	2	0	Squill	17	0
Gum acacia	110	4	Sticklac	10	0
Henbane	17	17	Tamarinds (E.I.)	50	0
Henna	19	0	Tonka-beans	7	0
Honey—			Turmeric (ground)	2	0
Haytian	4	4	Tuttle (dried)	1	0
Ipecacuanha—			Vanillin (cs.)	1	0
Cartagena	31	5	Wax (bees')—		
Matto Grosso	35	0	Abyssinian	30	0
Jalap	70	60	East Indian	159	0
Juniper-berries	72	0	Egyptian	27	0
Kamala	5	0	Jamaica	20	0
Kola	241	0	Madagascar	22	0
Lemongrass oil	1	1	Mombasa	16	0
Linaloe oil	6	6	Mozambique	276	20
Lycopodium	1	0	West Indian	1	1
Menthol	11	2			

* Sold privately.

ALOES.—Although 104 cases Cape were catalogued, they were not landed in time, and only four cases offered, a bid of 40s. being refused, the quality being good hard seconds. Socotrine in kegs were held at 80s. for hard livery. Privately Curaçao in cases is selling at dearer rates, including pale liver at 90s., dull liver 82s. 6d., and bright capcy 77s. 6d.

ANNATO-SEED.—Steady. Five bags of ordinary Ceylon sold at 6d. and sea-damaged Madras at from 4½d. to 5½d. per lb.

ARGOL.—A lot of 26 bags Cape sold at from 70s. to 80s. for sound, and 65s. to 70s. for sea-damaged, grey, and reddish.

BALSAM PERU was cheaper, a parcel of 8 cases, guaranteed genuine, selling with fair competition at 18s. per lb. net, no allowances.

BALSAM TOLU is cheaper, 8 cases selling at 1s. 6d. per lb. for all more or less slightly drossy.

BENZOIN.—Steady for Sumatra; 12 cases fair seconds with small almonds sold at 7l. 10s. per cwt., subject to sellers' approval, and for 16 cases of good brown thirds 6l. 5s. was paid. In the sale interval about 100 cases Sumatra have been sold, including also Palaembang at 57s. 6d. for barks thirds, which was the limit for 25 cases in the sale. Siam continues neglected.

BUCHU.—A single bag of fair round green stalky leaf sold at 5s. 4d.; ordinary to good green longs were limited at 3s. 6d. to 3s. 9d., and ovals at from 2s. 4d. to 2s. 5d.

CAMPHOR.—A lot of 63 cases Japanese refined 2½-lb. slabs sold without reserve at from 1s. 7½d. to 1s. 8d. per lb. net, no discount, being steady. A further lot of 10 cases Lucas 2-oz. tablets was bought in at 1s. 9d.

CANNABIS INDICA.—Two cases of genuine Bombay tops were offered and bought in, the limit now being 8s. 6d. per lb.; sales had been made privately at 7s. 6d., but no more is obtainable at this price. Two cases of African had been sold privately.

CARDAMOMS are difficult to sell, but the prices paid were about steady: Ceylon-Mysore extra bold fine pale sold at 5s. 9d.; medium to bold pale, 3s. 6d. to 3s. 8d.; medium pale, 3s. to 3s. 3d.; medium long, 2s. 2d. to 2s. 6d.; small pale, 1s. 10d. to 2s. 3d.; tiny pale, 1s. 5d.; bold pale split, 2s. 9d.; ordinary to fair brown splits and pickings, 1s. 4d. to 1s. 9d.; seed, pale to good, 1s. 8d. to 1s. 10d. Several strings of Ceylon-Malabar were limited at 1s. 8d. for bold brown, 1s. 7d. for medium, and 1s. 6d. for small. Six cases sold without reserve at 1s. 5d. for small brown.

CASSIA FISTULA is very scarce; six baskets of fair thin, part rattly, East Indian were limited at 60s. per cwt.

CELOCYNTH.—Of five cases offered one sold at 2s. per lb. for good yellow pulp, and of a further 19 bales of pulp eight had been sold privately, 2s. 6d. per lb. being wanted for the remainder, the quality being extra fine; a bag of siftings sold at 1s. 2d. per lb.

CEMIN-SEED.—Three bags of siftings sold without reserve at 31s. per cwt.

DRAGON'S-BLOOD.—Of *reed* four cases offered, and met with keen competition at an advance on the previous auction in January of 10s. to 17s. 6d. per cwt., from 13l. 15s. to 14l. 10s. being paid for fair. A case of fair, mostly bright seedy Singapore lump sold at 10l., subject to seller's approval.

GAMBGE continues very scarce; a single case of mixed Saigon and Siam pipe was held at 15l., and for a case of common Saigon 5l. per cwt. was wanted.

HENBANE.—Seventeen bales of fair Egyptian sold at 90s. per cwt.

IPCACUANHA.—Chief interest centred in a sale of five bags of fair Cartagena, which sold without reserve at from 12s. to 12s. 7d. per lb., being lower. For Cartagena on the usual conditions from 13s. to 14s. was wanted. Several parcels of Matto Grosso were offered, and 21s. will readily buy fair bright root, at which sales have been made privately to consumers.

JALAP.—A lot of 60 bags of small to bold fair Vera Cruz sold with fair competition at from 4½d. to 5d. per lb., no allowances or discount, "subject to wire reply." The analysis was said to be 5.7 per cent., but the parcel is to be re-analysed.

KOLA is flat and in plentiful supply, good dried Ceylon halves being obtainable at from 6d. to 6½d. and Java 5d. to 6d.

OILS (ESSENTIAL).—For nine cases sweet Jamaica *Orange* 6s. 6d. per lb. net was the firm limit. Three cases of *Sandalwood* oil (B.P.) from Alexandria sold at 31s. per lb., subject to seller's approval; three cases of Kobayashi demethylised *Mint* oil, re-packed in new tins, sold at 4s. 3d. per lb. A further two cases of Suzuki sold without reserve at 4s. 4d. per lb. A lot of 20 cases *Star-anise* oil offered and sold without reserve, including five cases at 3s. (congealing-point 4.7° C.), 10 cases at from 2s. 11½d. to 3s. 0½d. for congealing-point 14.6° C., and five cases at from 3s. 3½d. to 3s. 4d. for congealing-point 15.4° C. (B.P.). The following sales were on account of the Marshal of the Admiralty (Naval Prize): Four drums of *Citronella* at from 1s. 7d. to 1s. 8d. for Hayley's Ceylon oil. A drum (11 cwt.) of American *Cedarwood* at 10½d. per lb., and a case of good West Indian *Bay* oil at 11s. 9d. Four cases of *Clove* oil sold at from 5s. 1d. to 5s. 2d. Six cases of Mexican *Linaloe* oil went at from 9s. 9d. to 10s., and 10 cases of American *Spear-mint* oil at 7s. 7d. The chief interest centred in 19 cases catalogued as American *Peppermint* oil, on the quality of which some doubt was thrown by a buyer, who asked if the goods were as described; he stated his belief that, judging from the samples, the oil in question was partly adulterated with Japanese demethylised oil. The broker replied that the oil was sold for "whatever it is," and that the buyers, being experts, would be able to judge the quality. In spite of the goods being impugned, the 19 cases sold at from 7s. to 8s. 3d. net per lb. (one lot) and for five cases of Todd's brand 10s. per lb. net was paid.

ORANGE-PEEL.—Ten cases of fair but dull pale thin strip, said to be new crop Tripoli, were limited at 1s. 10d., a bid of 1s. 9d. being refused for one lot.

ORRIS.—A lot of 12 bags of partly sea-damaged Mogador sold at 35s. for fair.

RHUBARB is quiet and tending easier, especially Canton and Shensi, High-dried being unchanged. The sales comprised two cases of medium to bold round Canton with mostly greyish fracture at 2s. 3d., and rather better fracture at 2s. 6d. per lb., the latter being "subject." Two cases of medium to bold flat High-dried, with three-quarter fair pinky fracture and one-quarter dark, sold at 1s. 4d. per lb., which is the private sale-price. Two cases of

small round orange-coated, well-trimmed Shensi, with three-quarter good pinky fracture, sold at 3s. per lb., and three cases of Shensi pickings at 2s. 3d., being cheap.

SARSAPARILLA.—Grey Jamaica was steady, a string of 38 bales selling at from 1s. 6d. for part coarse and mouldy to 1s. 7d. to 1s. 8d. for fair grey fibrous. Native-Jamaica was quite neglected, nothing being sold publicly. Twelve serons Honduras realised 1s. 8d. to 1s. 9d. per lb.

SENNA.—Quite a sellers' market. The Tinnevely offered to-day was mostly common jungle leaf, of which 50 bales sold at 7½d. (a few 7¾d.) per lb., preferable bales being held for 8d. Dark pods were limited at 8d., at which private sales have been made. Twenty-four bales ordinary small yellowish Mecca sold at 7½d. to 7¾d. Of Alexandrian five bales good pale pods realised 2s. 8d., and 35 cases of fine clean whole leaf offered and bought in at 3s.—a bid of 2s. 6d. was refused; 32 bales of fair broken leaf sold privately, 1s. 9d. being refused in auction, the limit being 1s. 11d.; 14 cases fair greenish three-quarter leaf sold at 1s. 11d., and for nine cases ordinary half-leaf 1s. 9d. was paid. Privately, very high prices have been paid from second-hands, including 1s. for bold Tinnevely, 10½d. for medium, and 7½d. for ordinary jungle leaf; also 7d. for poor quality pods.

WAX, BEES.—Practically nothing was disposed of in auction, but a fair business is passing privately. The value of good clean Mozambique is from 6l. 17s. 6d. to 7l. 2s. 6d., and good Abyssinian from 7l. to 7l. 17s. 6d. Jamaica is slightly easier, fair quality being obtainable at from 7l. 12s. 6d. to 7l. 15s. Bleached Calcutta was limited at from 8l. 10s. to 8l. 17s. 6d., and yellow Calcutta was limited at 6l. 10s. A case of brown St. Vincent sold at 7l. per cwt. Twenty bags of grey to yellow pipe sold at 7l. per cwt.

Arrivals of Chemicals, Drugs, etc.

During the period March 1 to 7 inclusive, the following produce has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.	
Albumen (China) cs. 303,	Dextrin (A'dam) bgs. 230
(A'dria) cs. 118	Drugs and perfumes (Dieppe) pkgs. 33
Aloes (Cape) cs. 100	Egg-yolk (China) cs. 231, cs. 1,036; frozen, cs. 12,620,
Alum (Boston) brls. 375,	(A'dria) cs. 844, cs. 479,
(Philadel.) 300	(Suez) cs. 100
Anise oil, star (H.-Kong) cs. 10	Ergot (Oporto) 32
Anatto-seed (Jamaica) 150,	Essential oils (Malaga) dms. 6,
(Madras) 67	(H.-Kong) cs. 30, (Messina) pkgs. 590, (N.Y.) cs. 102,
Apricot-kern. (Japan) bgs. 140	(A'dam) pkgs. 18
Argol (Oporto) 134, (C. Town) 10	Farina (A'dam) bgs. 300
Arsenio (Oporto) brls. 75	Formic acid (R'dam) dms. 72
Barytes sulph. (L'horn) cks. 35,	Galls (B'bay) cs. 200, (China) cs. 150
(A'dria) brls. 150	Gelatin (Treport) cs. 15
Belladonna-root (B'bay, etc.) bgs. 60	Ginger (B'bay, etc.) 190
Benzoin (Penang) bxs. 39	Glucose (N.Y.) brls. 240
Bromides (Boston) cs. 240	Glycerin (Brisbane) dms. 63
Buchu (C. Town) bgs. 5	Glyco-thymoline (N.Y.) cs. 200
Calcium carbide (Go'burg) dms. 1,700	Ground-nuts (A'dria) bgs. 5,040
Calcium citrate (Montserrat) bgs. 73	Gum acacia (B'bay) bgs. 658
Camphor, crude (Kobe) cs. 250	Gum copal (S'pore) 151
Camphor, ref. (Kobe) cs. 35	(A'dria) 20
Canary-seed (Morocco) 76	Gum damar (S'pore) 30,
Cannabis ind. (B'bay) cs. 10	(A'dria) 138
Cantharides (H.-Kong) cs. 30	Gum thus (Boston) brls. 40
Caraway oil (R'dam) cs. 10	Gums, undescribed (A'dria) bgs. 73
Caraway-seed (A'dam) 80	Indigo (Madras) cs. 993,
Cardamoms (B'bay) 34, (Ceylon) 45	(B'bay) 174
Cascin (France) 401, (Wellington) 420, (B'bay) 70	Insect-flowers (Kobe) brls. 25
Cashew-nuts (Bombay, etc.) 643	Kola (Jamaica) bgs. 24
Cassia (H.-Kong) brls. 750, cs. 600, (A'dria) cs. 1,157	Lime-juice (St. Lucia) cks. 41,
Chemical prod. (France) cks. 20, (Philadel.) cs. 25	(Montserrat) cks. 50, (Nevis) pkgs. 46, (Jamaica) pns. 23, cs. 10
Chemical prod., medicines, perfumery, etc. (N.Y.) pkgs. 569	Lime oil (Montserrat) cs. 5
Chillies (Kobe) 100	Linseed (Havre) bgs. 250,
Cinnamon (Ceylon) 300	(C'utta, etc.) 21,363, (B. Ayres) bgs. 2,953
Cochinal (L. Palmas) 107	Liquorice-juice (L'horn) cs. 10,
Coconut oil (R'dam) cks. 450, (Ceylon) 87	(M'seilles) 25, (N.Y.) cs. 16
Cod-liver oil (Bergen) brls. 100	Liquorice-root (Spain) 20
Colocynth (A'dria) pkgs. 207	Lithopone (R'dam) brls. 287
Conra (Brisbane) 573, (Penang) 779, (Trinidad) 748, (B'bay) 889	Logwood (St. Lucia) tons 300, (Jamaica) tons 208
Cream of tartar (M'seilles) cks. 20	Medicines (Japan) cs. 20
Croton-seed (Ceylon) 101	Menthol and mint oil (Japan) cs. 80
Cuttle-fish bone (B'bay) 50	Mineral waters (France) cs. 1,249
Dental-cream (N.Y.) cs. 515	Molasses (Antilla) tons 2,560
	Nutmegs (Grenada) pkgs. 85, mace 48
	Nux vomica (B'bay) 320

Olibanum (B'bay) cs. 823	Fatty acids (Fredrikstad) brls. 600
Olive oil (Seville) brls. 986, dms. 28, (M'seilles) cks. 45	Glucose (N.Y.) brls. 1,259
Opium (B'bay) cs. 128, (Karachi, etc.) cs. 184	Ground-nuts (Bathurst) tons 700
Orange oil Jamaica) cs. 76	Gum copal (Java) bks. 192
Orange-peel (Seville) bgs. 47, (M'seilles) brls. 20	Honey (N.Y.) cs. 230, (Chile) brls. 92
Orris (L'horn) brls. 30	Indigo (Samarang) cs. 22
Palm-kernels (S. Leone) bgs. 15,211	Iodine (Chile, etc.) kgs. 172, brls. 46
Palma-rosa oil (B'bay) pots 9	Lime-juice (N.Y.) pns. 13
Pepper (S'pore) bgs. 1,240	Linseed (B'bay) bgs. 3,612
Petrolatum (Ba'more) brls. 195	Liquorice-juice (M'seilles) cs. 40, (N.Y.) cs. 225
Petroleum emul. (Boston) bxs. 7,704	Lithopone (R'dam) 400
Pimento (Marseilles) cks. 22, (Jamaica) 1,060	Medicines (N.Y.) cs. 25; pills cs. 63
Poppyseed (B'bay) bgs. 723	Milk-powder (N.Y.) dms. 165, brls. 166
Potash chlor. (M'seilles) cks. 20	Mineral waters (M'seilles) pkgs. 765
Potash, undescribed (Sweden) cks. 15, (Go'burg) brls. 35	Olive oil (M'seilles) cs. 101, cks. 120, (B'deaux) cs. 25
Quinine (A'dam) cs. 373	Orchella-weed (Callao, etc.) brls. 687
Rape oil (Japan) cs. 2,800	Palm-kernels (Bathurst) bgs. 253
Rape-seed (B'bay) 6,281	Potash perborate (Chile) bxs. 666
Rennet ext. (C'hagen) cks. 38; tablets, cs. 20	Rape-seed (B'bay, etc.) bgs. 4,333
Rhubarb (A'dria) cs. 9	Roots, barks, herbs, etc. (N.Y.) bgs. 56, (M'seilles) roots brls. 54, seeds bgs. 50, (Arica) brls. 58
Roots, barks, herbs, etc. (M'seilles) pkgs. 273, (N.Y.) brls. 46	Saltpetre (B'bay) 1,000
Saltpetre (Karachi, etc.) bgs. 4,740	Soda nitrate (Chile) bgs. 123,908
Sandalwood oil (A'dria) cs. 4	Soda phosph. (N.Y.) bgs. 90
Sandarac (Morocco) brls. 71, bgs. 103	Soda sulphate (N.Y.) dms. 60
Sarsaparilla (Jamaica) 8	Soda sulphide (Boston) brls. 30
Senega (U.S.A.) brls. 25	Tartar, cr. (M'seilles) bgs. 815
Senna (A'dria) brls. 112, (Suez) brls. 50	Tartaric acid (M'seilles) cks. 20
Sesame-seed (China) bgs. 2,997	Turpentine (U.S.A.) brls. 440
Shellac (C'utta, S'pore) 25	
Soda caustic (Sweden) pkgs. 129	
Soda hypophosph. (Philadel.) kgs. 300	
Soda phosph. (Philadel.) bgs. 209	
Soda pruss. (A'dam) cks. 60	
Soda sulphite (N.Y.) brls. 33	
Soda, undescribed (Go'burg) pkgs. 121	
Soya-bean oil (Japan) cs. 1,000, (Hankow) dms. 25	
Sulphur (Sicily) tons 800	
Tannic acid (N.Y.) brls. 10	
Urea (Go'burg) cs. 10	
Vanilla (N.Y.) cs. 30	
Wax, bees' (B'bay) cs. 4, (Morocco) 110, (A'dam) 8, (Punta-Arenas) sks. 168, (Vigo) 20	
Witch-hazel ext. (N.Y.) brls. 60	
Wood oil (Hankow) cks. 114	
Zinc oxide (N.Y.) brls. 2,000	

To Liverpool.

Alcohol (Madeira) cks. 40	Alum powder (St. John, N.B.) cs. 34
Aniline dyes (M'seilles) cks. 87	Antimony ore (M'bourne) bgs. 3,328, (Chile) 3,120, (Mollendo) 73, (Callao) 301
Arachis oil (M'seilles) cks. 1,979	Calcium acetate (Chile) sks. 868, (Boston) bgs. 3,385
Calcium borate (Chile) bgs. 15,540	Chemical prod. (N.Y.) pkgs. 9
Chloral hyd. (N.Y.) cs. 10	Cinchona (Mollendo) brls. 12
Cocaine, cr. (Cartagena) cs. 4	Cochineal (L. Palmas) 70
Coconut oil (Ceylon) pps. 319	Cream of tartar (M'seilles) bgs. 48, (B'deaux) cks. 136
Dextrin (Boston) bgs. 215	Drugs (N.Y.) cs. 149, pkgs. 330, (Arica) brls. 100
Farina (N.Y.) 270	

To Bristol.—Caraway-seed (Holland) 155; ground-nuts (Rufisque) tons 2,074, (Bathurst) tons 780; lime-juice (W.I.) pns. 5. **To Folkestone.**—Chemical prod. (France) pkgs. 5; drugs (France) pkgs. 30; perfumery (France) pkgs. 53; perfumed spirits (France) cs. 23. **To Goole.**—Maize starch (R'dam) cs. 400. **To Harwich.**—(R'dam) pkgs. 27.

DURING THE NINE MONTHS ended September 1915 the exports of chemicals, drugs, dyes, and medicines from the United States amounted in value to \$54,186,000, against \$20,207,000 and \$19,800,000 for the corresponding periods of 1914 and 1913.



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

"The Boycotting of Neutral Goods."

SIR,—I always enjoy "Xrayser II's" sage remarks, and sometimes smile at his cocksureness, which, indeed, he usually justifies, for he rarely makes a mistake. This week he has taken up a fresh rôle, that of splitting hairs, and, being new at the work, he does it rather unskillfully. "Xrayser II." does not like the phrase "The boycotting of neutral goods," but I gather that he has no objection to the act itself, for if his observation means anything it means that we must by more or less gentle persuasion induce unpatriotic customers to pay a little more than they are inclined to do, rather than buy goods that are not home-made. Being a man of mature judgment, "Xrayser II." knows where persuasion stops and boycotting begins, but once admit the principle, how many ardent patriots would wait to apply the same balanced judgment in any given case? After all, he and I are in thorough agreement. He wants to give a preference to home-made goods, and so do I, for various reasons, but if he reads my letter again he will see that I specially draw attention to cases of possible hardship where the goods are certainly home-made, but by the partial aid of neutral capital. Is "Xrayser II." prepared to back those people who would, for example, close the huge Westinghouse works, and throw adrift thousands of Britishers doing honest and useful work, because part of the share capital is held in America? And will he follow the lead of the Pharmaceutical Society, as announced in the report from Stafford last week, in a crusade which, strictly carried out, would certainly boycott some home-made toilet-specialities? M.P.S. (75/16.)

What is Cost-price?

SIR,—"Alpha" and Mr. G. Kennedy have been rather long in finding out the absurdity of the Insurance Commissioners' interpretation of the term "cost-price." That this misinterpretation should have had the approval of our representatives only shows that not one of us realised what we were doing when we so cheerfully acquiesced in the voting away of our birthright for a mess of pottage. Certainly we have got into the mess, and what the pottage is worth remains to be seen. Mr. Kennedy is right when he says that no man can get eight pints out of a gallon of emulsion, but much less can anyone get twenty separate ounces out of a pint of glycerin, and therefore the theoretical instructions for calculating by arithmetic the cost-price of any given volume of glycerin are vanity and vexation of spirit. I agree entirely with Mr. Kennedy that the cost-price arrangement will act as an incentive to fraud, for we must in self-defence get twenty ounces out of every pint and sixteen ounces out of every pound. To compel us to select a net list-price, and to leave out the numerous items of expense which go to make up costs, is most unfair, and to represent a fractional part of such a price as the exact cost of an equal fraction in weight of any drug is such an absurdity that one is surprised that we ever agreed even to consider the scheme, much less to adopt it. One thing is certain: the men who first proposed it can have had precious little experience behind a retail drug-counter. BETA. (79/91.)

Patriotism and Profit.

SIR,—The proprietors of Sanaphos are offering special discounts to pharmacists who will bind themselves not to buy any more Sanatogen, but when their present stocks are exhausted give the preference to British-made articles, and, I gather, particularly to Sanaphos, since it is necessary to sell a certain quantity before earning the discount. They do so on the double ground that it is our duty to discourage trade with Germany, and that their own preparation is the better of the two. Now, I do not question their sincerity in making this offer on these grounds; I have no warrant for accusing them of any but the purest motives; but what does trouble me is that I cannot be sure that I should be disinterested in accepting the offer. I should be much surer of my own honesty in recommending Sanaphos if I were not being offered special terms for doing so. To the terms themselves I have no objection, and I should not mind recommending any good article on the ground that it pays me best; but I do not care to be

paid for my patriotism, and I have only other people's word for the article's superiority. I should not like to think I had been convinced of it because it is to my advantage to be so convinced. And what am I to say to the customer who accuses me of pushing one article when he asks for another because it pays me better? Will "just as good" do? But this is exactly what proprietors object to in other cases. They even call it "substitution." Frankly, I do not see my way to sign this agreement, and in a perfectly friendly spirit I suggest to the firm the desirability of modifying it. The knowledge that this opinion is not peculiar to myself assures me that it is not the scruple of a mere CASIST. (17/195.)

Economies in Dispensing.

SIR,—This being the time to economise, I suggest that permission should be given to modify in some respects the requirements of the Pharmacopoeia. For a great many years we got on very well with good tap-water, and with medicated waters impregnated with the oil by the aid of magnesia; and, again, aqueous tinctures have been used in some institutions with success. Sooner or later further economies will be necessary. In regard to the two first-named, it is a very good argument that "pump-water" and the essential oil properly diffused in mixtures are considered good enough for insured persons, and if good enough for them why not for all?—Yours, etc., J. P. N. (6/3.)

Legal Queries.

The majority of difficulties in regard to trade law are explained in the legal section of "The Chemist and Druggist Diary," 1916, beginning on page 341.

H. A. (152/8) has a tenant who has not paid any rent for a year. How should "H. A." proceed to recover the amount due? Should he give the tenant notice to quit? ["H. A."] should sue the tenant for the rent due. He may either give notice to quit in accordance with the tenancy agreement, or, if the agreement provides for re-entry on non-payment of rent, he may add in the summons for the rent a claim for possession of the premises.]

Subscriber (Belfast) (152/26).—Local authorities have not the power under the Shops Act, 1912, to close absolutely on half-holidays shops in which "the sale of medicines and medical and surgical appliances" by retail is conducted. Read paragraph Chemists' Shops in *C. & D. Diary*, 1916, p. 363, and subsequent matter; and the 1914 and 1915 *Diaries* if you want further information. In Great Britain it is customary for most chemists to close their shops entirely on the half-holiday, as most of the goods that they stock are not exempt. The Belfast City Council's order is in accordance with the Act.

D. T. A. (150/59).—Read reply to "Subscriber." (A) The half-holiday order as regards chemists' shops does not close them absolutely, but this is what happens in the majority of cases. (B) The sale of medicines and medical and surgical appliances is exempt from Sections 4 and 5 orders (*C. & D. Diary*, pp. 363-4). (C) There are no towns in which such sale is illegal. (D) Cards must be exhibited on the half-holiday, as explained in our *Diary*, p. 363.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

From the Gold Coast.

The British Drug Houses, Ltd., Graham Street, London, N., have received the following from the Gold Coast:

Dear Sir

I have seen your name and address from a newspaper that your the trades in the world so I want to trade with; So as soon as the reach in you I want you to send it in quick time I beg you don't write your name the Catalogue. I beg you very much do not neglect my letter which I sent to you.

My Compliments to all Sir!

Local Tribunals' Decisions.

A Member of the Pharmaceutical Society (79/103) writes to thank us for the reports of Local Tribunals' Decisions in the *C. & D.*, March 4, p. 294. He goes on to say: "These reports are of great value to every pharmacist claiming exemption for assistants by enabling him to let his Tribunal see what is being done all over the country. I regret that 'our own journal' has not risen to the occasion in this matter. While you report more than fifty individual cases, the 'Journal' reports about twenty, and even some of these are ancient history since you reported them a week earlier."

The present crisis in pharmaceutical affairs surely demands prompt and vigilant attention on the part of all concerned, and I am grateful to you for seeing that we are kept well informed in this matter of the doings of Local Tribunals."

Tobacco.

Referring to the article on tobacco in the Winter Number (p. 153), *Parisian* writes: "Tobacco in early time was, of course, considered a medicinal plant—in France, at least. Old Jacques Cartier, the explorer of Canada, described its use when he spent a winter among the Redskins at a place called Mont-Royal, and now more familiar as Montreal. Towards 1558 the monk André Theret brought into France 'tabac, a very salubrious herb, to distil and consume the superfluous humours of the brain, which does away with hunger and thirst, and of which the Christians settled in America have become marvellously fond.' This seems to have been about a couple of years before Jean Nicot (the French Ambassador to Portugal, whose name is immortalised in 'nicotine') wrote to the Cardinal of Lorraine (April 26, 1560) that he had 'an Indian herb of marvellous properties against the noli-me-tangere and the fistula,' and that as soon as it seeded he would send a plant 'dans ung baril' to the gardener of his Eminence, with instructions how to plant and care for it. The Queen Catherine de Medicis had the leaves pulverised, and 'snuffed' whenever she had the 'migraine' (sick-headache). But it is perhaps needless to insist on a fact with which all readers of 'Robinson Crusoe' are familiar; for Defoe lived in an age when the 'Sovrane Herbe' was fairly generally used. We may, however, note a 'General Police Regulation' of Paris, dated March 30, 1635, and unearthed by M. Eugène Grécourt: 'No person is allowed to sell tobacco except apothecaries and by doctors' prescription, under penalty of a fine of 90 livres parisis.'"

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these, they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

A. A. K. (140/37).—COAL-ECONOMISING POWDER.—See C. & D., November 13, 1915, p. 60.

J. B. D. C. (143/25).—BLUE-BLACK INK-POWDER.—The difficulty at the present time is to obtain the aniline dyes required for ink-powders, but the following formulæ are used:

I.		II.	
Powdered sumach	5½ oz.	Blue-black (Williams')	2 lb.
Powdered gum acacia	3½ oz.	Clove oil	45m
Iron sulphate	1½ oz.	Mix.	Pack in ¼-oz.
Blue-black (Williams')	3½ oz.	packets, each sufficient for	
Mix, and divide into		a pint of ink.	
packets of 1 oz., sufficient			
for a pint of hot water.			

Redcliffe (236/29).—CHEAP DISINFECTANT.—We should think that the coal-tar disinfectant-fluid, a formula for which was given in the C. & D., February 26, p. 64, will answer the purpose you have in mind. An alternative is a carbolic powder such as the following, bearing in mind, however, that carbolic acid is now at an abnormal price:

Siliceous earth	120 lb.
Alum refuse	56 lb.
Crude carbolic acid	45 lb.
Red ochre	a sufficiency

Mix and sift.

B. B. & Co. (146/27).—BOOKS ON THE MANUFACTURE OF CHEMICALS.—Thorpe's "Dictionary of Applied Chemistry," 5 vols. (45s. each, Longmans & Co.); Martin's "Industrial and Manufacturing Chemistry: Organic" (21s., Lockwood); Lunge's "Coal-tar and Ammonia" (42s., Gurney & Jackson); Lunge's "Manufacture of Sulphuric Acid and Alkali" (2 vols., 42s. each, Gurney & Jackson).

Optician (146/35).—Information regarding optical qualifications was given in the Educational Number (August 14, 1915), p. 68.

S. S. & B. (142/15).—CREAM-OF-TARTAR SUBSTITUTES.—These consist of an acid salt, such as acid calcium phosphate or potassium bisulphate, mixed with 10 per cent. of potato starch. The acid calcium phosphate is the favourite, but care should be taken that it is free, or nearly so, from calcium sulphate.

G. G. W. (236/37).—We do not lay ourselves out to assist our subscribers to make substitutes for proprietary articles.

W. A. R. (152/40).—UREA-QUININE, or quinine hydrochloro-carbamidum, is used as a non-toxic analgesic hypodermically. It is employed in 1-per-cent. solutions, from 3 to 5 c.c. being injected in place of cocaine solution. As a dental analgesic eucaïne (4 grain) is added to each dose. It is best prepared for use in ampoules, and great care must be exercised to secure sterility of the solutions and the syringes.

W. H. B. (150/44).—We have no formula for petroleum emulsion in which slippery elm is employed as the suspending agent. The formula for *Slippery-elm Mucilage* is

Bruised slippery elm	1 oz.
Water	16 oz.

Digest on a water-bath for an hour and strain.

With this you will be able to make a few experiments with not, we think, much hope of success.

Pimento (148/20).—(1) What you ask is illegal. (2) PUBLISHERS OF MEDICAL BOOKS.—J. & A. Churchill, 7 Great Marlborough Street, London, W.; Baillière, Tindall & Cox, 8 Henrietta Street, Covent Garden, London, W.C.; J. Wright & Sons, Ltd., Bristol; H. K. Lewis, 136 Gower Street, London, W.

Mice (242/27).—There is a difficulty in suggesting a poison to use in the flour-paste, having regard to the fact that the paste will eventually be nearly in contact with the feet. Arsenic or mercury perchloride added to the paste would poison mice which ate it, but would be dangerous to use for bootmaking-purposes.

Brandy (151/35).—The flavour of brandy depends on the volatile ethers it contains, which could be removed by boiling the spirit. It is ridiculous to talk of diluting whisky with brandy and retaining the whisky flavour.

W. P. (153/64).—(1) NITRE-CAKE, an impure acid sodium sulphate, is a by-product in the manufacture of nitric acid from Chilean saltpetre. It is quite suited for the purpose of cleaning the marble and mosaic work of a public bath, and much cheaper than the acid you have been using. (2) SANDOW'S CARBONIC-ACID BATH-TABLETS.—The patent for these expired in 1905. The acid tablets consist of fused bisulphate of soda poured into moulds.

J. R. (151/73).—NAVAL DISPENSERSHIPS.—See C. & D., August 14, 1915, p. 61.

F. R. (141/26).—CERIUM-IRON FOR POCKET CIGAR-LIGHTERS.—The Welsbach French patent for this is 337,320. The alloy is known as cerium-iron or auer-metal. It is made in England by the British Pyrophoric Metal Co., Leeds. The Kunheim pyrophoric alloys are made under British patent 16,210 of 1909. These consist mainly of cerium metals.

H. E. G. (133/67).—A prescription which reads "Saline c. sodio citr. 5% Oj." requires the addition of 5 per cent. of sodium citrate to a pint of normal saline solution. The latter is a 0.623-per-cent. solution of sodium chloride in sterilised distilled water—i.e., 55 grains to 20 oz. See also the note on p. 78 of this issue.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1866.

"How to Make Green Tea."

Many of our readers have doubtless seen an advertisement bearing the above heading, and have rightly guessed the "chemical toy" to which it refers to be a family connection of the lately famous "Serpent de Pharaon." These relations of all degrees of consanguinity—have, indeed, multiplied to an extent which it is to be hoped will, by nauseating the public with really dangerous bagatelles, soon become its own remedy. The "Green Tea" is, however, perhaps as pretty and comparatively harmless an example of chemical decomposition as can well be introduced into the family circle. To make "Green Tea" you gently heat, on a bit of tinplate over the flame of a candle or spirit-lamp, a few orange-coloured crystals, when suddenly, and with slight decrepitation, the crystals are converted into a mass of green fragments, which really do simulate with wonderful closeness the shrivelled leaves of tea. The orange crystals are those of the acid chromate of ammonium, $(\text{NH}_4)_2\text{O} \cdot 2\text{Cr}_2\text{O}_3$, which is well known to give, when heated, the green sesquioxide of chromium. Even the marked resemblance to tea-leaves has been long since noticed by Bottger. (*Fide* Watts' Dict., art. Sesquioxide of Chromium.)

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is earned by those who shew these well advertised dentifrices, because the public already begin to associate “T.M.” as the only thing “worth while” where **SMOKERS’ TEETH & MOUTH HYGIENE** are concerned. Repeat upon Repeat is the order of the day with heaps of testimony (totally unsolicited) from users. Then, look ycu! are there many lines on your shelves or counter, in cases or drawers, that are advertised so extensively and give such generous profits? Trade is undoubtedly being missed by those who have not “T.M.” on view, as direct inquiries indicate. Be not one of these.

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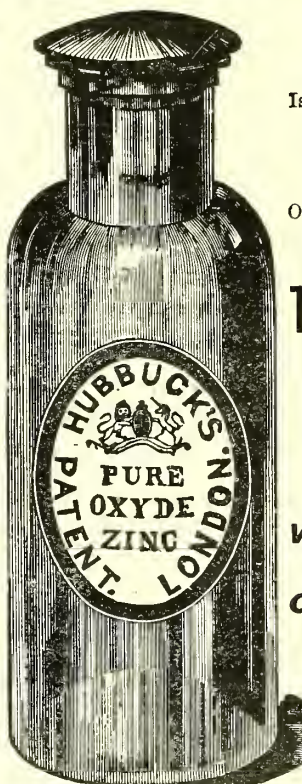
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Butler & Crispe
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Corbyn, Stacey & Co.
Dakin Brothers. [(Lim.)
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans Sons Lescher & Webb (Lim.)
Ferris & Co.
Gale & Co.
Glasgow Apothecaries' Co.
Glasgow New Apothecaries' Co.
Goodall, Backhouse & Co.
Harker, Stagg & Morgan (Lim.)
Harkness, Beaumont & Co.
Hatricks, W. & R., & Co.

Hirst, Brooke & Hirst.
Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
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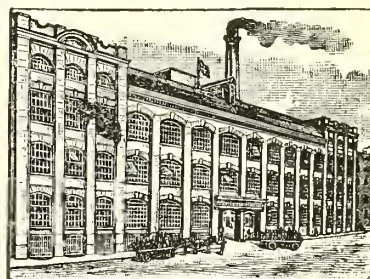


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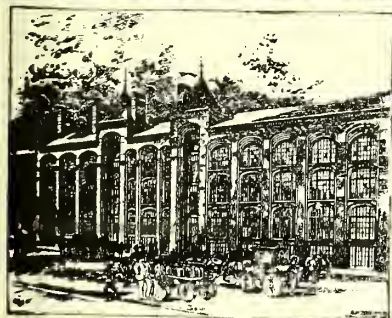
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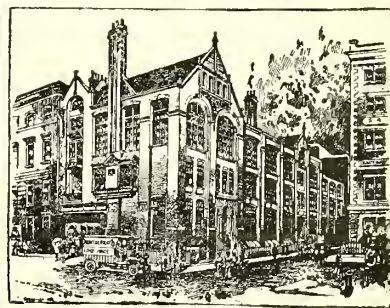
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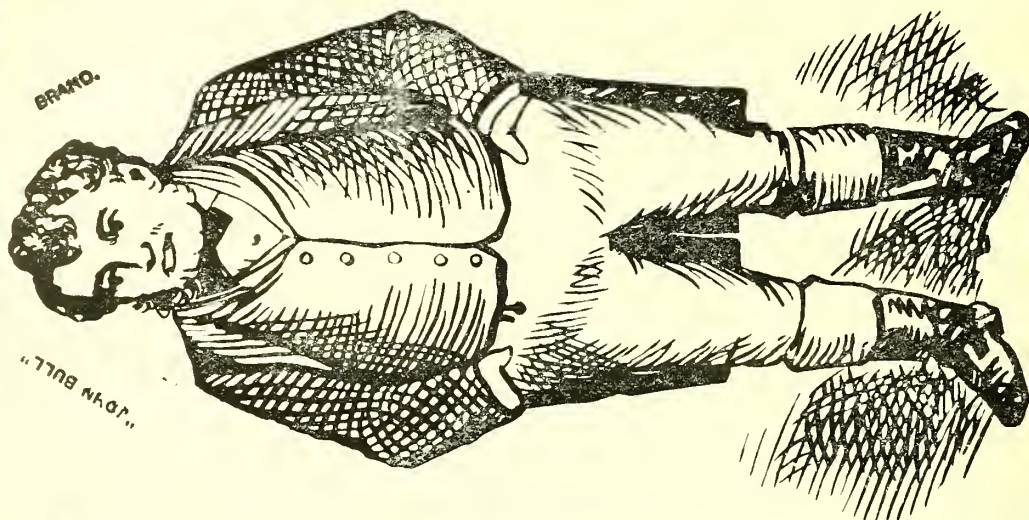
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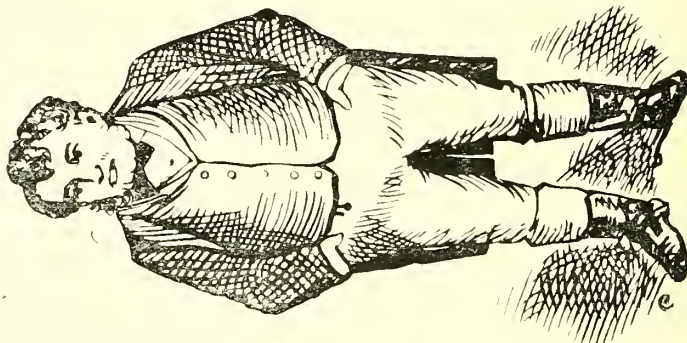
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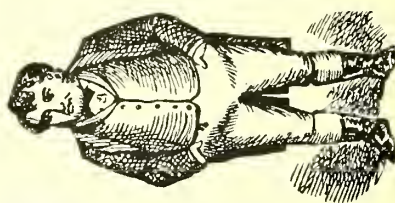
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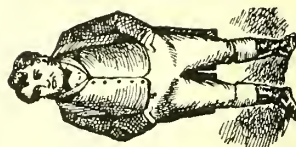
1912-13



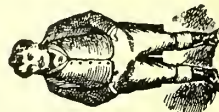
1911-12



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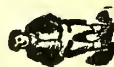
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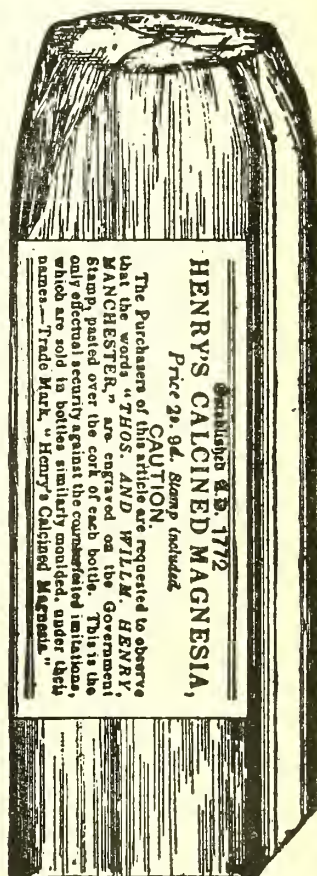
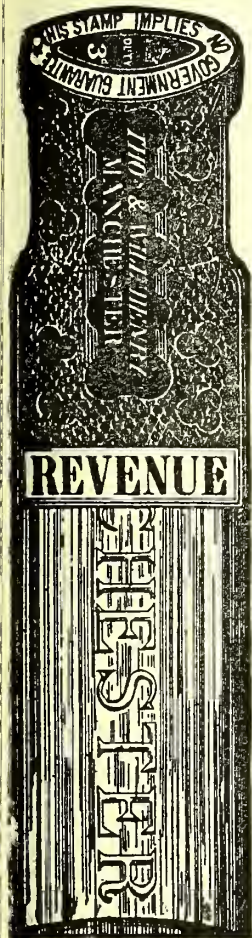
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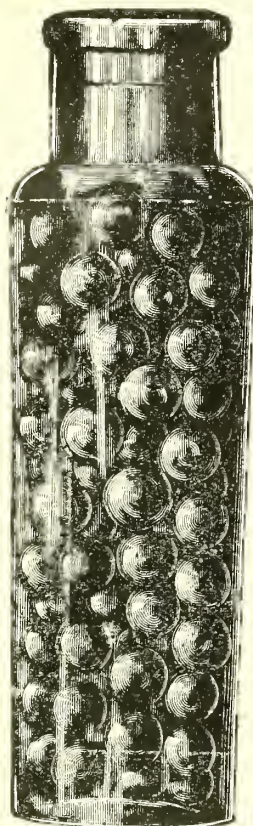
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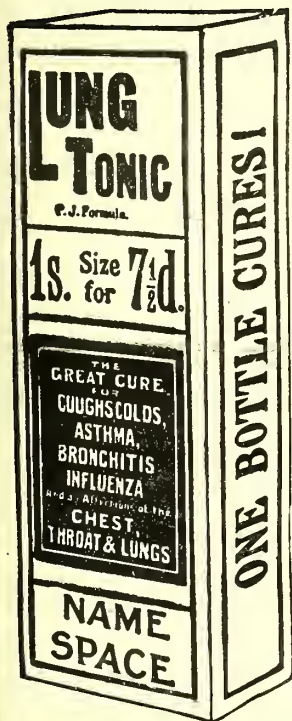
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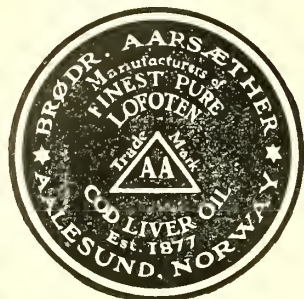
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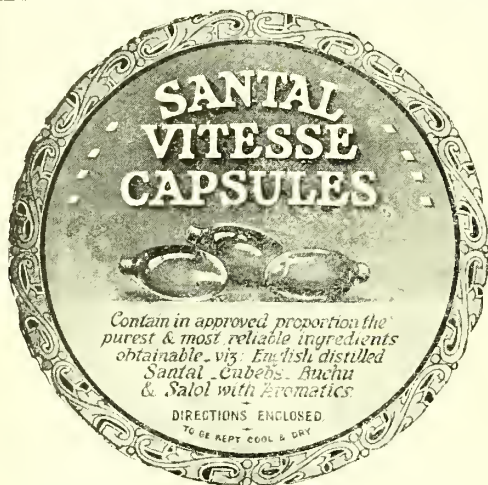
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- A**ctyl-Salicyl, 1 lb. @ 53/- lb.
- B**enz, B.P., 7 lbs. @ 15/- lb.; 1 lb. @ 15/6 lb.
- B**oric Pulv., 3 cwt. @ 54/9 cwt.; 1 cwt. @ 55/9 cwt.; leviged, 3/- cwt. or 1 d. lb. extra.
- C**arbol. Xtra, 39/40; 56 lb. drums @ 2/1 lb.; 12 1-lb. Bots. @ 2/4 lb.; Single Bots. @ 2/6 lb.; Detached Cryst. 1 lb. @ 2/8 lb.; Crude Black, 45 gall. casks @ 1/1 gal.; 5 gall. drums @ 1,8 gall.; 1 eall. tins @ 2/2 each.
- C**itric, Cryst., B.P., '85, 7 lbs. in bags @ 3/5 lb.; powder 1 d. lb. extra.
- D**iethylbarbituric, 1 oz. @ 4/6 oz.
- G**allie, pur., P.B., 7 lbs. @ 4/9 lb.; 1 lb. @ 5/- lb.
- H**ydrochlor. Coml., cases of 4 2-gal. jars, 26/6 each; 20 case lots @ 27/6 each.
- H**ydrocyan, P.B., 6 lbs. @ 1/7 lb.; 1 lb. @ 1/1 lb.; 36 1-oz. Vials @ 7/6 doz.
- O**xalic Cryst., 1 cwt. @ 1/7 1/2 lb.; 14 lbs. @ 1/8 lb.
- P**hosph. Dil., B.P., 6 lbs. @ 5d. lb.
- S**alicyl. pulv., 1 lb. @ 23/- lb.
- S**ulphur, Coml., cases, 4 2-gal. jars @ 36/- each; 20 cases @ 35/- each.
- S**ulph. Aromat. B.P., 5 lbs. @ 4/2 lb.
- T**annic, B.P., 1 lb. @ 5/1 lb.
- T**art., Cryst. or pulv. B.P., 1885, 7 lbs. @ 2/11 1/2 lb.; parv. 1 d. lb. extra.
- A**loes Benz., B.P., 28 lbs. @ 10d. lb.; 7 lbs. @ 11d. lb.
- A**rgo Eris Pulv., 14 lbs. @ 1/3 lb.
- A**loes Barb., English ground, 28 lbs. @ 120/- cwt.; 7 lbs. @ 1/3 lb.
- A**loes Socot., 7 lbs. @ 1/5 lb.; powder, 7 lbs. @ 1/6 lb.
- A**loes, B.P., 1 lb. @ 5/6 lb.
- A**mmos. Benz., 7 lbs. @ 15 6 lb.; 1 lb. @ 16/- lb.
- A**mmos. Esom. P.B., 1 lb. @ 26/- lb.
- A**mmos. Carb. Imp., 3 cwt. @ 61d. lb.; 28 lbs. @ 8d. lb.; 7 lbs. @ 81d. lb.; powder, 1 d. lb. extra.
- A**mmos. Chlor., 99% pulv., 1 cwt. @ 59/- cwt.; 7 lbs. @ 71d. lb.; Batteries, 4/- cwt. extra.
- A**myl Pulv., 10 cwt. @ cwt.; 2 1/2 cwt. @ cwt.; 1 cwt. @ cwt.
- A**sked., English ground, 1 cwt. @ 62/- cwt.; 7 lbs. @ 71d. lb.
- A**nth. Nig. Pulv., 7 lbs. @ 1/1 lb.
- A**nth. Tart. pulv., 7 lbs. @ 4/- lb.
- A**piol, 1 lb. @ 29/- lb.
- A**qua Anethl Conc. 1-40, 1 lb. @ 3/4 lb.
- A**nal. Conc. 1-40, 1 lb. @ 3/6 lb.
- A**urant. Conc. 1-40, 1 lb. @ 6 6 lb.
- A**urant. Trip., 6 lbs. @ 8d. lb.; 53 lbs. for 23/-
- C**innamon Conc. 1-40, 1 lb. @ 3/9 lb.
- C**lauscerasi, 6 lbs. @ 8d. lb.
- C**neath. Pip. Conc., 1-40, 1 lb. @ 3/5 lb.
- R**ose Conc. 1-40, 1 lb. @ 7 5 lb.
- R**ose Trip., 53 lbs. for 25/-; 6 lbs. @ 8d. lb.
- S**amb. Conc., 1-40, 1 lb. @ 6 6 lb.
- S**amb. Trip., 6 lbs. @ 8d. lb.
- A**starch, fine powder, 7 lbs. @ 8/- lb.; 1 lb. @ 8/6 lb.
- A**rgent. Nit., 6's to oz., 25 oz. @ 2/1 1/2 oz.; 1 oz. @ 2/4 oz.
- A**rgent. Nit., Cryst., 25 oz. @ 2/- oz.; 8 oz. @ 2/1 oz.
- A**rsenic, Alb. Pulv., 2 cwt. @ 39/- cwt.; 7 lbs. @ 5d. lb.
- A**tropinæ Sulph., P.B., 1 oz. @ 152/6 oz.
- A**uril Chlor., 6 doz. 15 gr. tubes @ 21/3 doz.; 1 doz. 15 gr. tubes @ 21/6 doz.
- B**ala. Copalbm, pure, 44 lbs. @ 2/11 lb.; 9 lbs. @ 3/2 lb.; 1 lb. @ 3/6 lb.
- B**eruv., P.B., 1 lb. @ 24/- lb.
- S**ulphur, 7 lbs. @ 101d. lb.
- T**olut. B.P., 50 lbs. @ 2/3 lb.; 1 lb. @ 3/1 lb.
- B**ismuth, P.B., Carb., 3 lbs. @ 15/- lb.; 1 lb. @ 15/6 lb.; unalt., same price.
- B**oracic Mixture, 1 cwt. @ 60/- cwt.
- B**orax, 1 cwt. @ 31/6; powder 1/- extra.
- B**utyl-Chloral Hydras., P.B., 1 lb. @ 1 lb.
- C**affeine, P.B., 1 lb. @ 40/- lb.
- C**affeina Cit., B.P., 1 lb. @ 25/6 lb.
- C**alamina, powder, fine pink, 5 cwt. @ 11/6 cwt.; 1 cwt. @ 12/6 cwt.; 7 lbs. @ 2d. lb.
- C**alamine, B.P., 1885, 7 lbs. @ 1/2 lb.
- C**alcil Carb. Præcip., 5 cwt. @ 17/6 cwt.; 1 cwt. @ 22/- cwt.; 28 lbs. @ 26/- cwt.
- H**ydraz., P.B., 1 cwt. @ 25/- cwt.; 7 lbs. @ 5d. lb.
- H**ypophosph. Pur., P.B., 1 lb. @ 3/- lb.
- I**odid., 1 lb. @ 25/- lb.
- C**ampbor, English Flowers, "not artificial," 5 lbs. @ 2/5 lb.; 1/2 oz. or 1/4 oz. 7 lbs. @ 2/4 lb.; good white, about 55% as imported, 140 lbs. @ 1/9 1/2 lb.; 28 lbs. @ 1/10 1/2 lb.
- C**antharids, Russian, 7 lbs. @ 19/- lb.; powder 6d. lb. extra.
- C**apsicine, solution, 1 lb. @ 9/6 lb.
- C**arbo Animalis or Lignl, powder or lump, 1 cwt. @ 25/- cwt.; 28 lbs. @ 31d. lb.
- C**ardamoms, 28 lbs. @ 3/10 lb.; 7 lbs. @ 4/- lb.
- C**armine, Finest, 1 lb. @ 25/- lb.; No. 2, 1 lb. @ 20/- lb.
- C**era Alba, B.P., White Moors, 28 lbs. @ 2/2 lb.; 4 lbs. @ 2/4 lb.; Flav. 1 lb. Blocks, 28 lbs. @ 1/9 1/2 lb.; 4 lbs. @ 1/10 1/2 lb.; 1 oz. 1/2 oz. tabs., 7 lbs. @ 1/10 1/2 lb.
- C**eril Oxalas, 1 lb. @ 5/6 lb.
- C**etaceum, No. 1, fine white, 64 lbs. @ 1/- lb.; 7 lbs. @ 1/2 lb.; powder, 7 lbs. @ 1/7 lb.
- C**hloral Hydras Cryst., B.P., 7 lbs. @ 15/6 lb.; 1 lb. @ 16/- lb.
- C**hlorodyne, 5 lbs. @ 2/5 lb.
- C**hloroform, pure, B.P., 12 8-lbs. @ 2/10 lb.; 8 lbs. @ 2/11 lb.; 6 1-lb. bots. @ 3/3 lb.
- C**ocaine Hydrochlor., B.P., 25 oz. @ 21/6 oz.; 4 oz. @ 22/6; 1 oz. @ 23/6 oz.
- C**odeina, 1 oz. @ 25/6 oz.; Phosph., 1 oz. @ 21/- oz.; Hydrochlor. or Sulph., 1 oz. @ 22/- oz.
- C**olocynth, Apple, English ground, 1 cwt. @ 1/4 lb.; 28 lbs. @ 1/5 lb.; 7 lbs. @ 1/7 lb.
- C**omposition Powder (Coffin's), 1 cwt. @ 62/- cwt.; 7 lbs. @ 8d. lb.
- C**onf. Sennæ, P.B., 14 lbs. @ 111d. lb.; 7 lbs. @ 1/8 lb.
- C**ort. Aurant. Exot. Shreds, 7 lbs. @ 2/4 lb.
- C**inchon. Rub. (Quill), 7 lbs. @ 1/3 lb.
- U**lm Fulvæ, Pulv., 1 cwt. @ 11d. lb.; 7 lbs. @ 1/1 lb.
- C**ream of Tartar, 98% powder, 1 cwt. @ 200/- cwt.; 7 lbs. @ 1/11 lb.
- C**reasote, Beechwood, P.B., 7 lbs. @ 9/9 lb.
- C**reta c. Camph., 7 lbs. @ 10d. lb.
- G**all. Pulv., in sacks, 10 cwt. @ 7/9 cwt.; 1 cwt. @ 9/3 cwt.; 14 lbs. @ 11d. lb.
- P**reparata, 7 lbs. in box @ 1/- each.
- C**abebæ, English Ground, 28 lbs. @ 2/3 lb.; 7 lbs. @ 2/4 lb.
- D**ec. Aloes Co. Conc. 1-2, 6 lbs. @ 2/- lb.; Sinecoco, 6 lbs. @ 1/3 lb.
- C**inchonæ (Rubræ) Conc., 1-7, 6 lbs. @ 2/1 lb.; Sennæ Conc., 6 lbs. @ 2/9 lb.
- E**mp. Spread, 12 yards x 16 ins. adhesive, 4/-; Bellad. B.P.C., Green @ 19/3; Cerat. Saponis @ 8/3; Pictis Co. @ 8/3; Plumbi @ 6/8; Resinæ @ 4/11; Roborans @ 7/9; Saponis, B.P., @ 6/8.
- E**mp. Pictis, P.B., 7 lbs. @ 10d. lb.
- P**lumbi, P.B., 7 lbs. @ 11d. lb.
- R**esinæ, P.B., 7 lbs. @ 10d. lb.
- R**oborans, 7 lbs. @ 10d. lb.
- E**mulsion Ol. Morrhua, 5 lbs. @ 1/5 lb.
- E**serine Sulph., in 15-grain tubes, 7/9 each.
- E**ss. Bergam. (Oil), 12 lbs. @ 13/- lb.; 1 lb. @ 14/- lb.; not guaranteed absolutely pure.
- E**ss. Limonis (oil) original copper, 12 lbs. @ 4/3 lb.; 6 1-lb. bots. @ 4/9 lb.; not guaranteed absolutely pure.
- E**ss. Moschi (not artificial), 5 lbs. @ 13/6 lb.; 1 lb. @ 14/3 lb.
- E**ss. Pear (artificial), Jaconelle, 5 lbs. @ 2/6 lb.; Bergamot, 3/- lb.
- E**ss. Pineapple, 5 lbs. @ 4/- lb.
- R**aspberry, 5 lbs. @ 2/8 lb.; 1 lb. @ 3/- lb.
- V**anilla Beans, 5 lbs. @ 4/6 lb.; 1 lb. @ 4/9 lb.
- E**xt. Belladonna Liq., B.P., 5 lbs. @ 17/6 lb.; 1 lb. @ 18/- lb.; solid, 7 lbs. @ 9/- lb.
- E**xt. Cannab. Ind., Alc., B.P., 1 lb. @ 54/- lb.
- E**xt. Cascara Sag. Liq., B.P., 1 cwt. @ 1/6 1/2 lb.; 10 lbs. @ 1/9 lb.
- E**xt. Ergot. Liq., P.B., 5 lbs. @ 4/10 lb.; 1 lb. @ 5/4 lb.; Solid, P.B., 4 lbs. @ 25/- lb.; 1 lb. @ 26/6 lb.
- E**xt. Gent. P.B., solid, 1 cwt. @ 1,9 lb.; 7 lbs. @ 1/10 lb.
- E**xt. Glycyrrh. Liq., B.P., 6 lbs. @ 2/7 lb.
- E**xt. Hamamelis Liq., P.B., 5 lbs. @ 3/10 lb.
- E**xt. Hyoscyam., Solid, B.P., 3 lbs. @ 8/6 lb.; 1 lb. @ 9/6 lb.
- E**xt. Ipecac. Liq., P.B., 5 lbs. @ 32/6 lb.; 1 lb. @ 33/6 lb.
- E**xt. Malti c. Ol. Jecoris, 10 lbs. @ 9d. lb.
- E**xt. Nucis Vom. Liq., P.B., 5 lbs. @ 4/3 lb.; 1 lb. @ 4/6 lb.; solid, 5 lbs. @ 4/6 lb.; 1 lb. @ 5/- lb.
- E**xt. Opil Solid, P.B., 1 lb. @ 72/- lb.
- E**xt. Opil Liq., B.P., 5 lbs. @ 5/6 lb.; 1 lb. @ 6/- lb.
- E**xt. Quassia, Solid, 7 lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.
- E**xt. Sarsæ Co. Solid, 7 lbs. @ 6/- lb.; 1 lb. @ 6/6 lb.
- F**erri Ammon. Cit., P.B., 28 lbs. @ 3/7 lb.; 7 lbs. @ 3/9 lb.
- F**erri Carb., 14 lbs. @ 6d. lb.
- F**erri et Quinina Cit., P.B., 109 oz. @ 1/1 1/2 oz.; 25 oz. @ 1/2 oz.
- F**erri Sulph., pure cryst., 1 cwt. @ 7 lbs.
- F**errum Redact., 80%, 7 lbs. @ 7/6 lb.; 1 lb. @ 7/10.
- F**lor. Anth. Exot., 7 lbs. @ 1/6 lb.
- F**ol. Buchu, oval, 7 lbs. @ 2/8 lb.
- F**ol. Sennæ Alex. parv., 28 lbs. @ 10d. lb.

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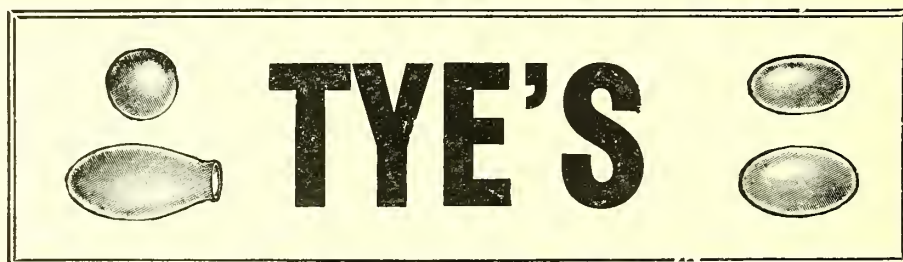
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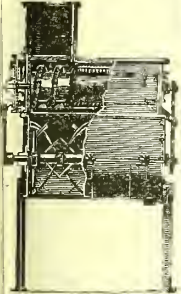


Fig. 1.
Machines for Hand Use.

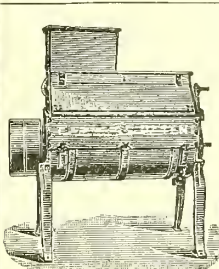


Fig. 2.
Power Sizes with Pulleys.

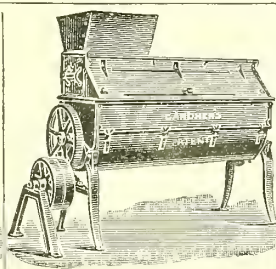


Fig. 3.
Pulley and Gear Drive.
The type recommended for Power users.

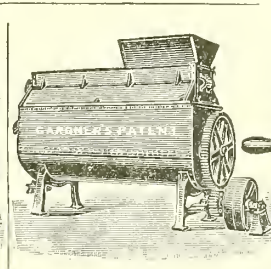


Fig. 4.
Large capacity Power-driven Machines.

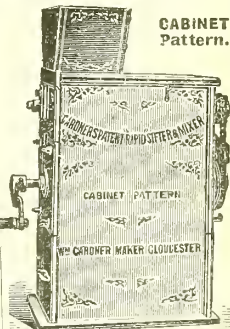
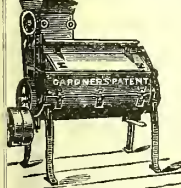


Fig. 5.
Cabinet Pattern.
For Counter use and small quantities. Will do the same work and contains all the leading features of the standard patterns.
Size A. About 15 lbs. capacity, £
Size B. About 30 lbs. capacity, £
Made in these Two Sizes only.

Size	Holding capacity of Agitator about	Price	Size	Holding capacity of Agitator about	Price	Size	Holding capacity of Agitator about	Price	Size	Holding capacity of Agitator about	Price
A	15 lbs.	£	C	60 lbs.	£	D	100 lbs.	£	H	5 cwt.	£
B	30 "	£	D	100 "	£	E	150 "	£	I	10 "	£
C	60 "	£	E	150 "	£	F	200 "	£	J	20 "	£
D	100 "	£				G	300 "	£			

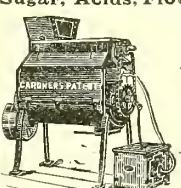
GARDNER'S Patent "RAPID" SIFTER, MIXER, AND CRUSHER. (Fig. 6.)
For breaking down large and hard lumps in **Sugar, Acids, Chicory, Salt, Colours, Soda**, small enough to be reduced, sifted, and mixed afterwards.



Size	Holding capacity of Agitator about	Price
C	60 lbs.	£
D	100 "	£
E	150 "	£
F	200 "	£
G	300 "	£

Fig. 6.

GARDNER'S Patent "RAPID" SIFTER, MIXER, AND ESSENCE SPRAYER. (Fig. 7.) For adding **Liquids, Essences, Flavours, Liquid Colours, Oils, &c.**, to **Sugar, Acids, Flour, Face Powders, Disinfectants, Seasonings**, and many kinds of Powders and Crystals during Mixing.



Size	Holding capacity of Agitator about	Price
D	100 lbs.	£
E	150 "	£
F	200 "	£
G	300 "	£

Fig. 7.



Fig. 8.
Open Bottom Pattern.

Size	Price
A	£
B	£
C	£
D	£
E	£
F	£
G	£

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Fig. 9.
Hopper Bottom Pattern.

Size	Price
A	£
B	£
C	£
D	£
E	£
F	£
G	£

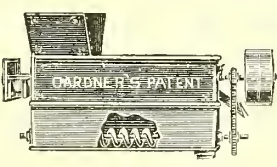


Fig. 10.
Worm Bottom Pattern.

Size	Price
B	£
C	£
D	£
E	£
F	£
G	£

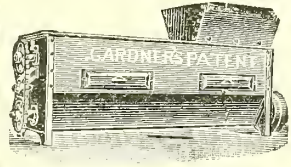


Fig. 11.
Large Capacity Worm Bottom.

Size	Price
H	£
I	£

NOTE.—THE CAPACITY of SIFTERS entirely depends on material and mesh of sieve used.

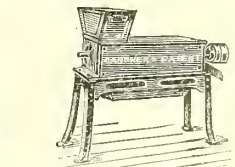


Fig. 12.
Iron Stand Pattern.

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F	£
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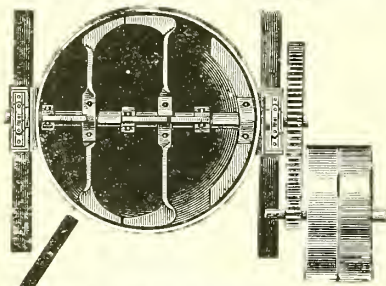
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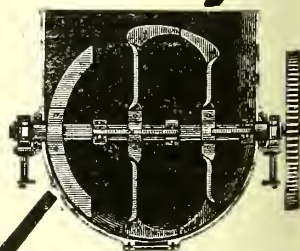


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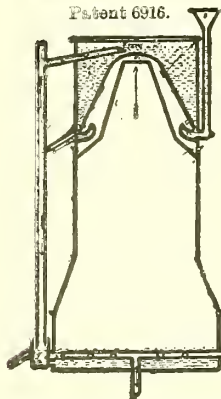
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Patent 6916.



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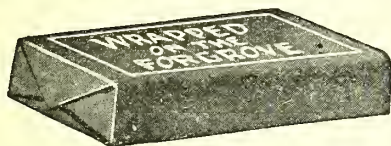
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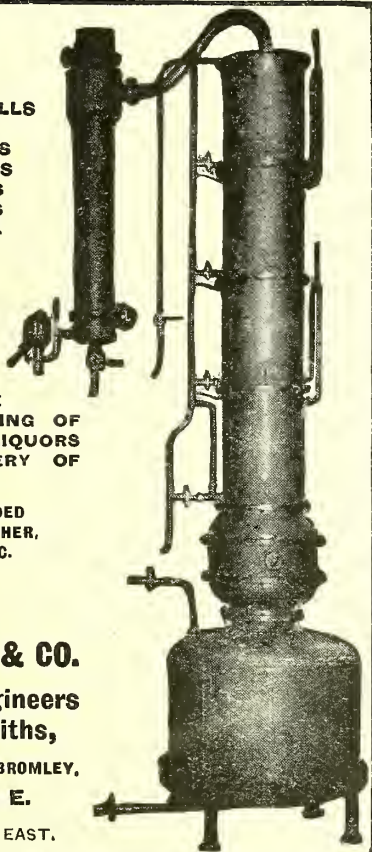
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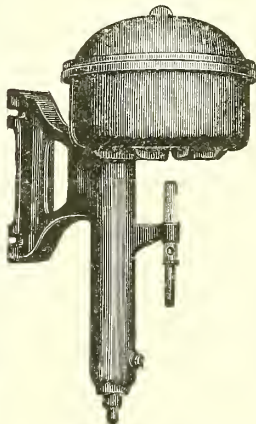
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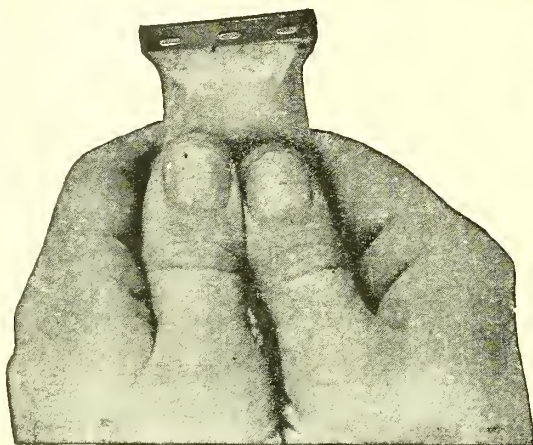
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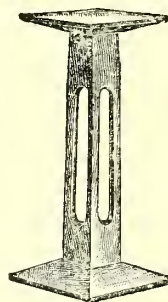
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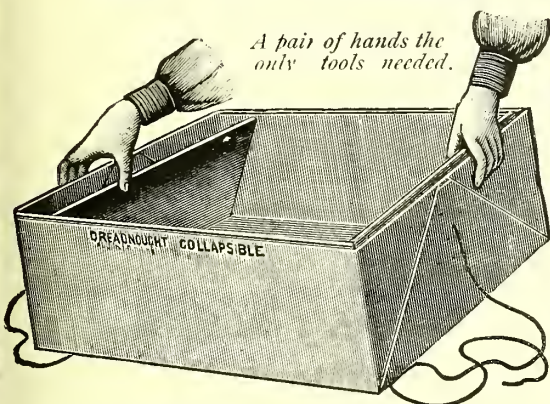
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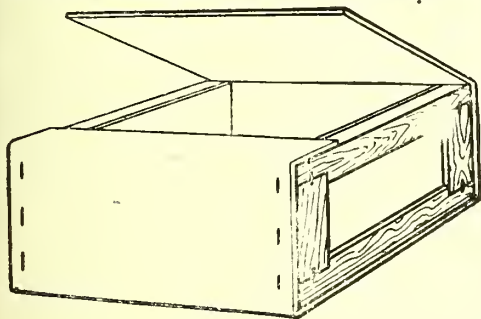
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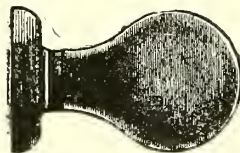
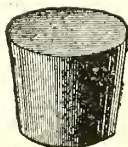
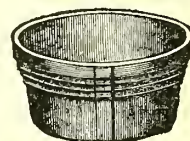
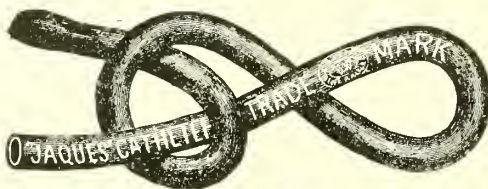


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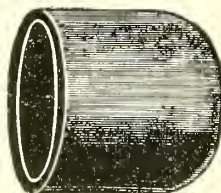


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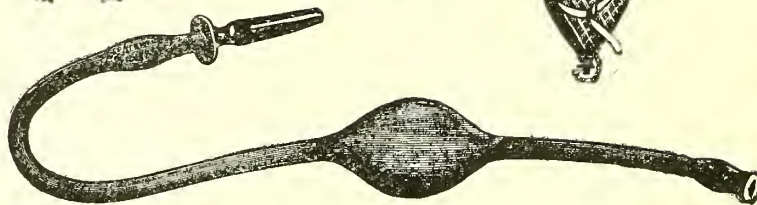
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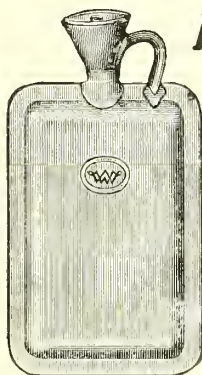
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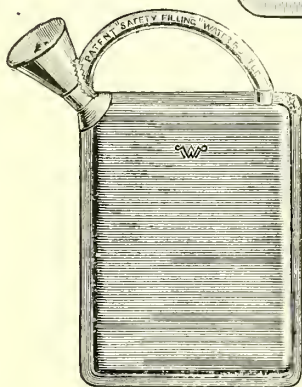
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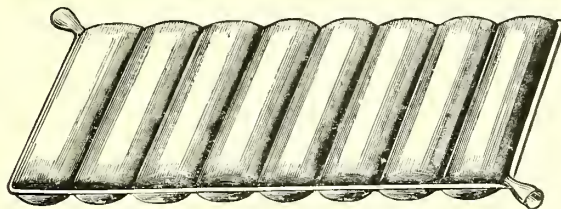
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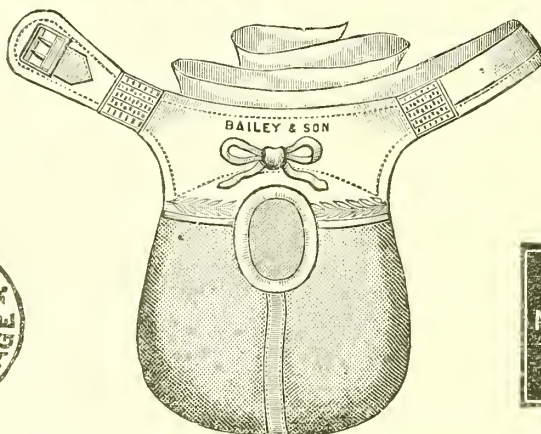


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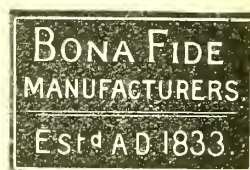
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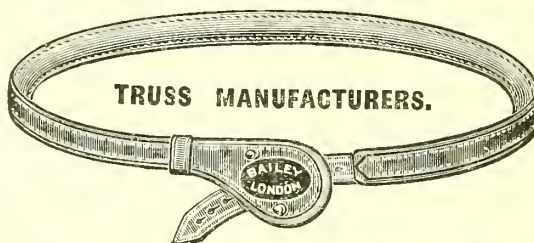
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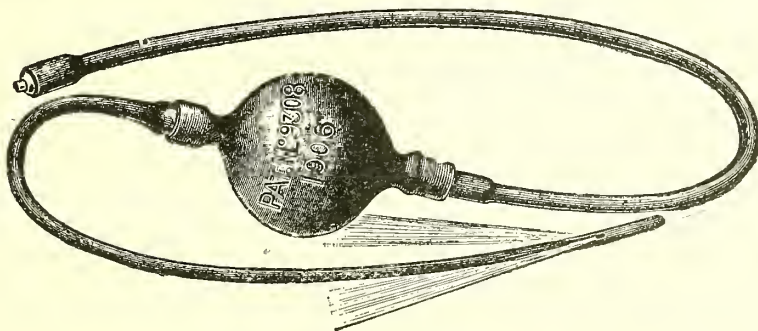
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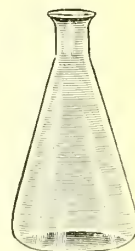
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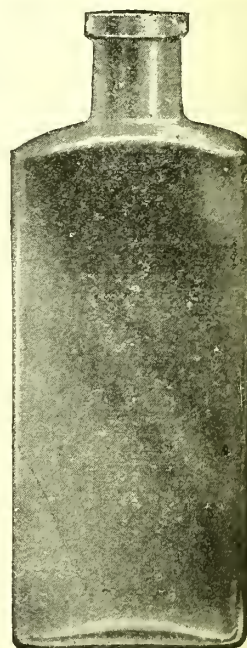
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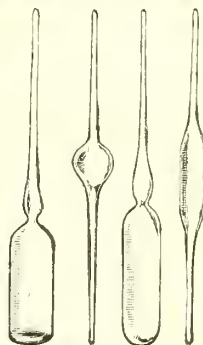
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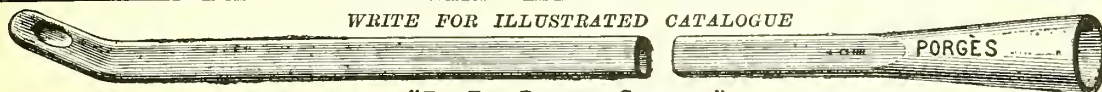
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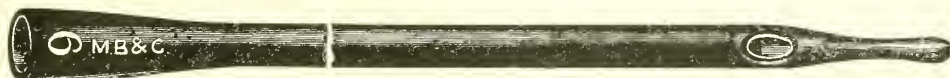
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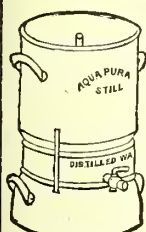
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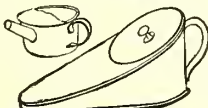
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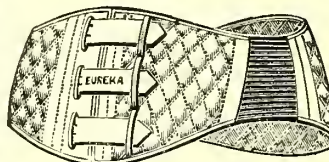
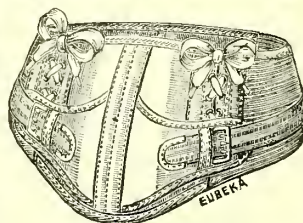
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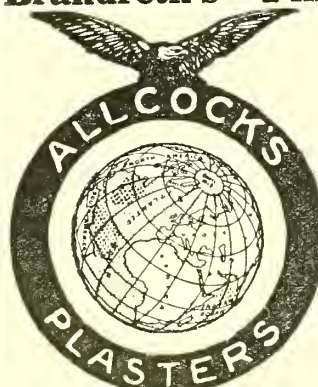
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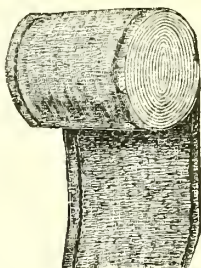
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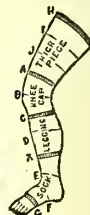
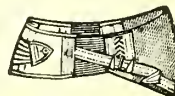
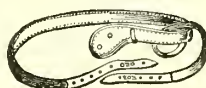
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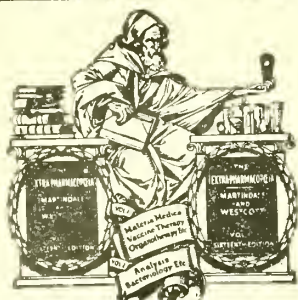
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a distinction all their own."—C. & D.
"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia and other powders.
COOPER, SON & CO., Ltd., 80 Gloucester Road, SOUTH KENSINGTON.
In Ten Sizes. Also supplied to fit existing machines.

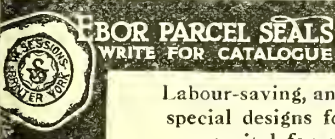
Send for Revised Price List.
ROYLANCE & CO.,
Dental Mechanics,
Castle Chambers,
Hounds Gate, NOTTINGHAM.

THE CURSE

of any business is procrastination. Therefore get at once a 9/- Postal
Order. Send it to us, and we will send you, Carriage Paid to your door,
1 GROSS 1d. NI-VERRE SHAMPOO
1 GROSS 2d. DESMONA SHAMPOO
Realises you 36/- or, in other words, 300 per cent. These Shampoos sell at
sight. You can only get one lot at this rate. Send now.
Only terms: Cash with Order.

THE NI-VERRE CHEMICAL COMPANY,
5 to 7 Ormeau Avenue, BELFAST (Ireland).

Send for Trade Price List of
MECHANICAL DENTISTRY
TO
TEMPLAR MALINS, LTD.,
51 Queen Street, CARDIFF.



Labour-saving, and a real advertisement;
special designs for medicine bottles;
capital for awkward parcels.

W. SESSIONS, PRINTER, YORK

"An excellent system."
"This practical device."
GROVER.
DRAPERS' RECORD.

CELLULOSE WADDING IN BULK
WE HAVE STOCK AND INVITE INQUIRIES.
Hospitals and General Contracts Company, Ltd.
9 & 21, 25-35 MORTIMER STREET - LONDON, W.
Phone: MUSUM 3140. Telegrams: "CONTRACTING."



ALEXANDRE'S SHADEINE

FOR COLOURING GREY HAIR
This popular article is largely advertised
and stocked by all Wholesale Houses.
TRIAL BOTTLES 6d. size, supplied on
pretty showcards,
4/6 doz.; 1/- size, 10/- doz.; 3/6 size, 30/- doz.

58 WESTBOURNE GROVE, LONDON, W.

E. CRAWSHAW & CO.,

58 Great Dover Street, S.E.
ANILINE DYE MERCHANTS,
are still selling their well-known Aniline Dyes to retail
in Penny Packets.
Telephone: HOP 4992. Teleg. Address: "Cachous London."

RUBBER GOODS

(For ALL KINDS of SURGICAL)

Try **JAMES TOMPKINS, LTD.,**
Rubber Manufacturers, 386 CITY RD., LONDON.

ESTABLISHED 1877.

BAINES' LIQUID DIELECTRIC AND DIELECTRIC UNGUENT.

For the rapid arrest and cure of Local Pyrexia in all its forms
including Pleurisy, Pneumonia, Neuritis, &c. &c. Invaluable in
Rheumatoid Arthritis and Gout. Prepared and Sold to the Medi-
cal Profession and the Drug Trade only by the Sole Manufacturers,

DEIONS, LTD., 220 Tower Bridge Rd., LONDON, S.E.
Telegrams—"Deionisers, Berm, London." Telephone—HOP 335

Van Horn and Sawtell

—LONDON AND NEW YORK—
MAKERS OF
"K-Y" LUBRICATING JELLY
IN COLLAPSIBLE TUBES AND OF
"Van Horn" Sterile Sutures and Ligatures
IN GLASS TUBES — PRICES ON APPLICATION

235 HIGH HOLBORN, W.C.

C. M. Smokers Dentifrice in particularly
appealing tins, made for them and advertised to
them. May we Send a Sample and tell you
about a wonderfully successful window show?

Advertised 6d. P.A.T.A. 4½d. Cost 2/3 doz.

CHRISTYS, OLD SWAN LANE, E.C.

USE
BRITISH
PRODUCTS.

NEPENTHE.

When the prices of nearly all sedatives and hypnotics have advanced considerably, we may
be pardoned for calling attention to the fact that the price of "Nepenthe" remains unaltered.

THE SAFEST AND BEST PREPARATION OF OPIUM.

NEPENTHE in 2 oz., 4 oz., 8 oz. and 16 oz. bottles.

GLYCEROLE OF NEPENTHE (eight times the single strength) for hypodermic injection. In 1 oz. bottles.

NEPENTHE SUPPOSITORIES in four strengths. Equivalent to ½, ¼, ⅛ and 1 grain Morphia.

The word "Nepenthe" is registered under the Trade Marks Act, and is our exclusive property.
No substitute may be dispensed when "Nepenthe" is ordered in a prescription.

FERRIS & COMPY., LTD., BRISTOL.

HARVEY'S GREAT REMEDIES FOR THE HORSE WITH THE ADDED REMEDIES.

(Protected Prices.)

HARVEY'S ACONITE POWDERS.

For Chronic Cough, Broken Wind, Roaring, &c.

HARVEY'S WORM AND CONDITION POWDERS.**HARVEY'S WATTS' EMBROCATION**, or
Curb Bottle.**HARVEY'S WATTS' RED LOTION.**

For Wounds.

HARVEY'S HAIR RESTORING OINTMENT.**HARVEY'S EDOS**, or Tasteless Purging
Powder.**THE ADDED REMEDIES:****HARVEY'S KOPPOS POWDER.**For Lymphangitis, or Weed, and Inflammations
generally. In Tins, 5/- and 10/- each.**HARVEY'S THRUSH SPECIFIC.**

In Tins 1/9 and 3/- each.

HARVEY'S HOOF OINTMENT.

In Tins, 3/- and 6/- each.

Also

HARVEY'S HAIR RESTORER (HUMAN).A successful modification of the Veterinary Prepara-
tion. In Pots, 2/- each.The REMEDIES may be obtained of all the leading Druggists'
Sundries Houses.**HARVEY & COMPANY, LTD., DUBLIN.**

All Chemists should note that

EXTIRMO

(TRADE MARK Regd.)

has Three Good Points.

Numbers 1 and 3 appeal to you, and
== Number 2 to your customers. ==

1. Saleability.**2. Merit:—**

"EXTIRMO" is on the P.A.T.A. List.

"EXTIRMO" kills and mummifies RATS, MICE,
BEETLES and COCKROACHES and leaves
no smell."EXTIRMO" does not require a Poison Book
signature."EXTIRMO" will keep in a perfect condition for
an indefinite period."EXTIRMO" is superior as regards the get-up of
the Tube or double-lidded tin."EXTIRMO" is used and approved by all the lead-
ing Medical Officers of Health."EXTIRMO" is BRITISH THROUGHOUT.**3. "EXTIRMO" shows you a
profit of over 33 %.**WRITE FOR TRADE TERMS TO SALES MANAGER, DEPT. 10,
EXTIRMO LIMITED, HULL.

CAUGHT ALL BUT ONE & I'LL HAVE HIM SOON

THE DOOMO AIR SHIP FLY BAND

THE DOOMO AIRSHIP FLY BAND

A wide band, sticky on both sides, unrolling like a blind.

Proprietors of FLYDOOMO—
the old Favourite Fly Paper.

Jno. H. Smith & Co.

NEWARK-ON-TRENT.

It makes a clean sweep

HARLEY'S "RODINE"

RAT POISON

Fascinating & Fatal.

The Welcome Box

Miss Horner, Greenoside, Shef-
field, writes:—"We have found
'Rodine' to be the best rat poison
we have ever tried. We have not
got many rats now, but do not
want to be without 'Rodine,'
and we shall be glad to see the
box come."

Push "Rodine"—It Pays.

HARLEY

Manufacturing Chemist,
PERTH, SCOTLAND.

Export Agents:

TOZER, KEMSLEY & FISHER, Ltd.
84 Fenchurch St., London, E.C.

MORRIS, LITTLE & SON, Ltd., DONCASTER

SHEEP DIPS (Poisonous and Non-Poisonous) of all kinds.

DISINFECTANT SOAPS of all kinds.

DISINFECTANTS of all kinds, including LYSOL SUBSTITUTE and High Co - Efficients.

Largest Makers of Non-Poisonous Sheep Dip in the World.

CELTOL

**BRITISH MADE
ANTISEPTIC &
DISINFECTANT**

Contains commercially pure Cresol in the same proportion as does Lysol. Soluble in water, giving a clear solution, uniform throughout.

CELTYL, Disinfectant Fluid, 18-20 Co-eff.
CELTIC CROSS, Ordinary Disinfectant Fluid.
CELTOLINE, Antiseptic Liquid Soap.

Sheep Dip, Crude Carbolic Acid, Soap Powder, Domestic Liquid Soap and all other Coal Tar Products. All British made by the

CELTIC CHEMICAL CO., Petershill Road, GLASGOW.

Agents: CELTOL SUPPLY AGENCY

AUGUST REICHWALD, LIMITED.

(Estab. 1872), Entirely British Owned and Controlled.
Finsbury Pavement House, London, E.C.

THE WAR OFFICE HAS AUTHORISED
the use of

“ VERMIJELLI ”

by the Troops, after very exhaustive investigation by the R.A.M.C., on the relative values of Vermicidal substances.

NON-POISONOUS. NON-INFLAMMABLE. MIXES WITH WATER.

The efficacious preventative and remedy for Lice, Fleas and other vermin.

Wholesale from Sole Manufacturers:—

S. BOWLEY & SON, Wellington Works,
Battersea Bridge, London, S.W.

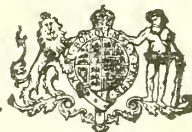
Prices: 1 lb. Tins ...	1/- each ...	1/5 each ...	Post paid in U.K.
2 lb. " ...	6/9 " ...	7/9 " ...	
Collapsible Tubes 9d. " ...	1/1 " ...		



To H.M.
King George V.

By Royal Warrant

To H.M.
Queen Alexandra.



HOLDERS OF ROYAL WARRANTS DURING THREE SUCCESSIVE REIGNS.

Jeyes' Fluid

Best and Safest Disinfectant.

**JEYES'
PARASITIC SOAP**

(In metal boxes 2/6 per doz.)

For destroying all body parasites in the trenches.

**JEYES'
CYLLIN SOAP**

(In 12 tab. boxes, 2/6.)

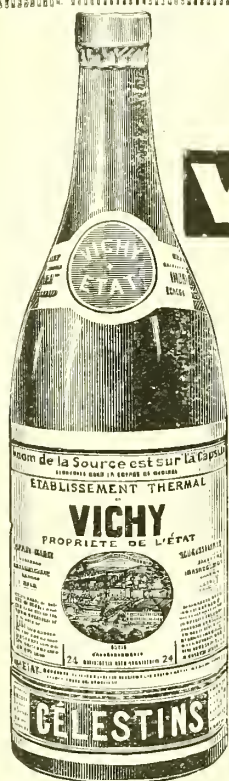
Invaluable as a cleanser and purifier of the skin.

Jeyesol

Identical in composition with original German Lysol, and equally efficient.

Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, E.C.





THE FRENCH NATURAL MINERAL
— WATER. —

VICHY-CÉLESTINS

DISORDERS of the **LIVER, GOUT,**
Diabetes, Rheumatism, Gravel, &c.

VICHY-ETAT PASTILLES.

Two or three Pastilles after each meal facilitate Digestion.

CAUTION.—Each Bottle from the STATE SPRINGS bears a neck label with the words "VICHY-ETAT" and the name of the **SOLE AGENTS** INGRAM & ROYLE, Ltd., Bangor Wharf, 45 Belvedere Road, LONDON, S.E.

PROPERTY OF THE FRENCH GOVERNMENT.

Perrier
The Champagne of Table Waters

COMES FROM FRANCE.

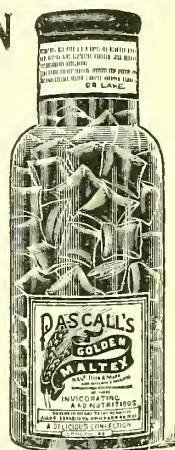


PRICES ON
APPLICATION TO

PERRIER LTD., 45-7 WIGMORE ST.,
(Sales Dept.) **LONDON, W.**

PASCALL'S
GOLDEN MALTEX

Contains
25%
Pure
Malt
Extract

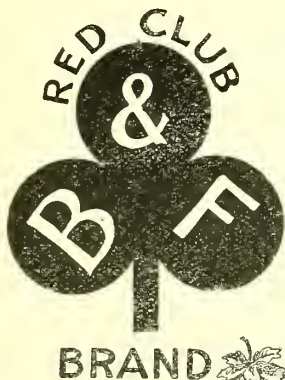


of
especial
food value
for
Children.

Pascall's Golden Maltex is admirably suited for sale by Chemists, owing to its nutritive and restorative qualities.

Order through your Wholesale Druggist, or direct from the manufacturers,

JAS. PASCALL, Ltd., LONDON, S.E.



FOR

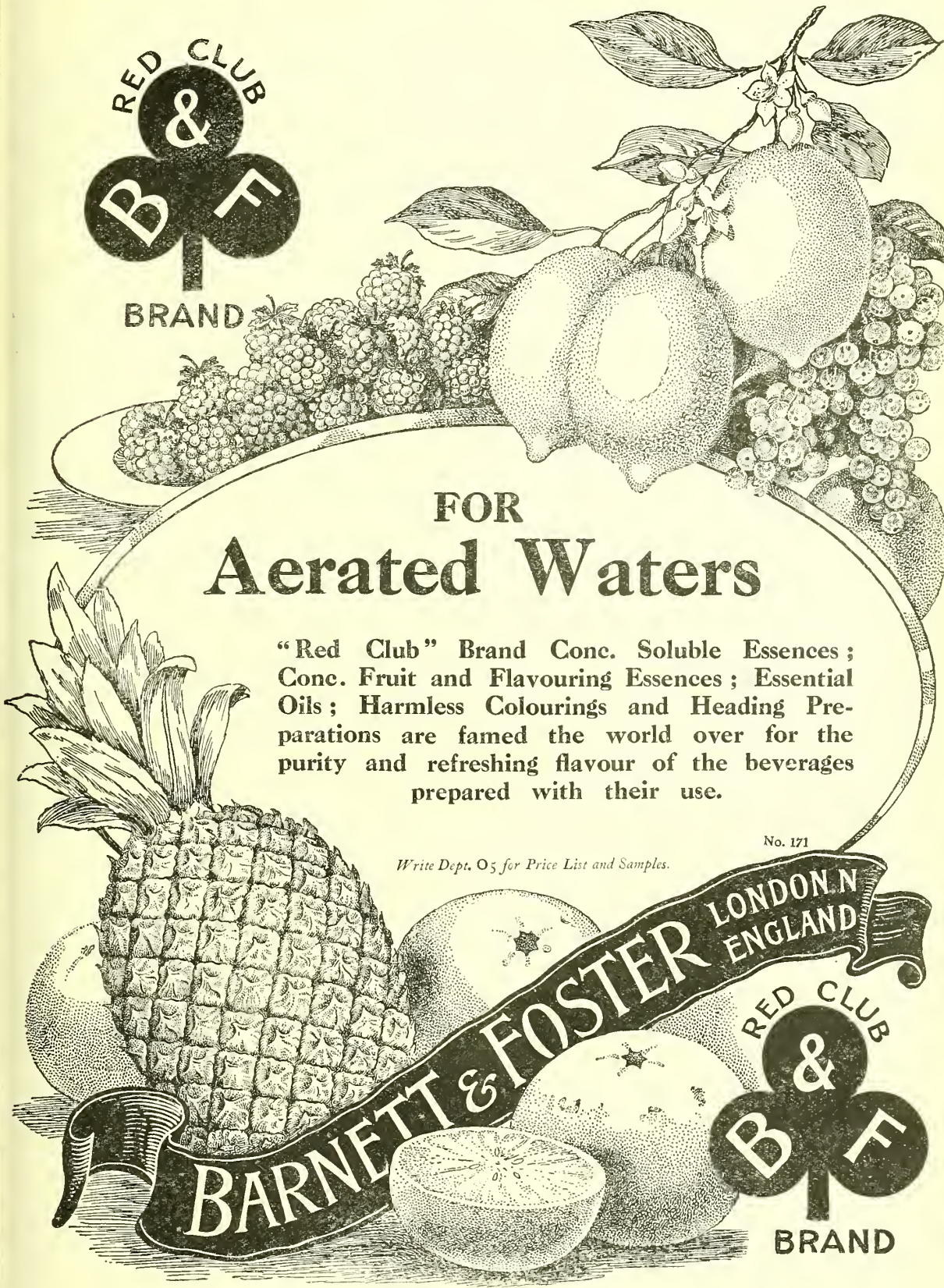
Aerated Waters

"Red Club" Brand Conc. Soluble Essences ;
Conc. Fruit and Flavouring Essences ; Essential
Oils ; Harmless Colourings and Heading Pre-
parations are famed the world over for the
purity and refreshing flavour of the beverages
prepared with their use.

No. 171

Write Dept. O5 for Price List and Samples.

BARNETT & FOSTER LONDON & ENGLAND



HONEY! HONEY!**"JOYBELLS" HONEY.**

The choicest and most delicious Honey procurable. Screw-Top Glass Jars, 9s. 3d. and 5s. 6d. per doz.
"JOYBELLS" HONEY. Red Earthenware Pots, 8s. 9d. and 4s. 9d. per doz.; In Bulk, 7½d. per lb. Tins charged and returnable.
 The Institute of Hygiene state—"We are satisfied that 'Joybells' Honey is a genuine product, possesses the distinctive flavour imparted to bee honey, and is a most pleasant and wholesome article for general table use."

"SUMMERLAND" HONEY.

Equals that usually sold as Finest Clover Honey. Screw-Top Glass Jars, 8s. 3d. and 5s. per doz.; In Bulk, 6½d. per lb.

"SWEET FLOWER BELL" HONEY.

Fine quality. Clean Flavour. Tie-Over Red Earthenware Pots, 6s. 6d. and 4s. 3d. per doz. In Bulk, 5½d. per lb.

BEESWAX. Choice quality, 1s. 8d. per lb.; 1 oz. Moulds, 1s. 6d. per doz.

Carriage paid anywhere in England on Orders of £2 value. Samples 3d.

STANDARD HEALTH FOOD COMPANY

(With which is incorporated The Berkshire Honey Co.)
Honey Specialists. READING, BERKS.

PRICES PROTECTED.**Dr. Allinson's Food Preparations.**

Food for Babies, Prepared Barley, Brunak, Power, N.-F. Cocoa, Biscuits, Soup, Wholemeal, &c.

NOTICE TO THE TRADE

We issue a list of WHOLESALE HOUSES who keep above in stock; if for any reason you have difficulty in obtaining supplies, please send postcard direct to us, and a list will be sent to you by return. See trade mark on all our goods: "T. R. ALLINSON," *None Genuine Without.*

NATURAL FOOD COMPANY, LIMITED,
 Cambridge Rd., Bethnal Green, LONDON, E.

Handbills, Booklets, Showcards, &c., Free.

N.B.—Our goods are to be sold only at prices stated upon the Price List we issue to the trade, and we are pleased to exchange any article which may be out of condition.

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

CHUM AURANTH, B.F.

Prepared in strict accordance with the Formula of the British Pharmacopoeia.

(Wholesale only)

London Agent: **JAMES STIRTON, 43 GREAT TOWER STREET, E.C.**

**ALL CHEMISTS
 SHOULD STOCK**

ABDINE

THE GOLD MEDAL FRUIT DRINK.

Quick Seller. Big Profits. Quarter of a Century's Reputation.
"ABDINE" is the most popular Health Drink. Superior to all Mineral Waters. Sold in 1d. Packets, and Boxes of 13 Packets at 1/-
 Order through your Wholesale Drug House.
D. M'GLASHAN, M.P.S., 12 West End Place, EDINBURGH.
Wholesale Prices on Application

Wholesale **ALL BRITISH** Only.

+ CRÊPE BANDAGES. +

In various widths and qualities. Send for Samples, with Prices, and compare with any foreign production, to
The Norwich Crepe Co. (1856), Ltd., St. Augustines, Norwich,
 who are acknowledged to be the only manufacturers in Great Britain.

Prompt Sales
Quick Turnover
Increasing Demand
Protected Price

You stock "Wincarnis"—our advertising sells it for you. There is an enormous and ever-increasing demand for "Wincarnis," because it is a good article backed up by a powerful advertising campaign. Don't risk losing sales through being out of stock. Glance at your stock now.

IMPORTANT NOTE TO CHEMISTS WITHOUT LICENSES.—It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" *without* a license.

COLEMAN & CO., Ltd., Wincarnis Works, NORWICH.

WINGARNIS



Why buy German Waters?

TONALKA

is the

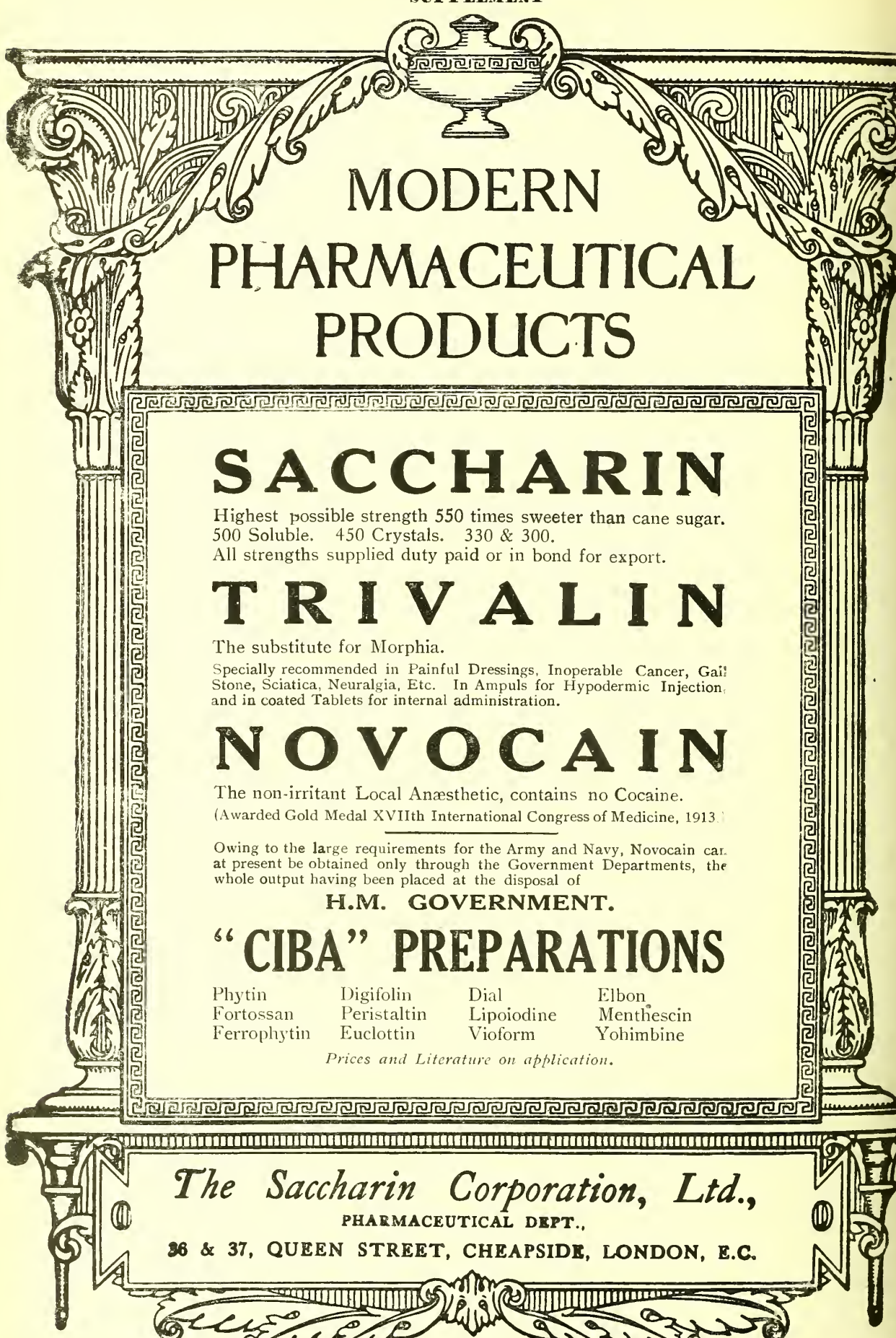
**British
Aperient Water**

which yields you a
GOOD PROFIT.

IDRIS & CO., Ltd. PRATT STREET,
CAMDEN TOWN, N.W.

Telephone: 522 NORTH.





MODERN PHARMACEUTICAL PRODUCTS

SACCHARIN

Highest possible strength 550 times sweeter than cane sugar.
500 Soluble. 450 Crystals. 330 & 300.
All strengths supplied duty paid or in bond for export.

TRIVALIN

The substitute for Morphia.

Specially recommended in Painful Dressings, Inoperable Cancer, Gall Stone, Sciatica, Neuralgia, Etc. In Ampuls for Hypodermic Injection, and in coated Tablets for internal administration.

NOVOCAIN

The non-irritant Local Anæsthetic, contains no Cocaine.

(Awarded Gold Medal XVIIth International Congress of Medicine, 1913.)

Owing to the large requirements for the Army and Navy, Novocain can at present be obtained only through the Government Departments, the whole output having been placed at the disposal of

H.M. GOVERNMENT.

"CIBA" PREPARATIONS

Phytin	Digifolin	Dial	Elbon
Fortossan	Peristaltin	Lipoiodine	Menthescin
Ferrophytin	Euclottin	Vioform	Yohimbine

Prices and Literature on application.

The Saccharin Corporation, Ltd.,

PHARMACEUTICAL DEPT.,

26 & 37, QUEEN STREET, CHEAPSIDE, LONDON, E.C.

To Aerated Water Manufacturers.

DELICIOUS AERATED BEVERAGES

ARE MADE FROM

HAY'S ESSENCES

Cream Soda Essence,

Cream Raspberry Essence

Cream Strawberry Essence

Peach Ripe Essence,

Orange Squash Essence.

Claret and Lemon Essence,

Cherry Cider Essence,

Lemon Squash Essence (BRIGHT or CLOUDY)

Lime Squash Essence.

Lime Juice and Soda Essence,

Orange Champagne Essence,

Kola Champagne Essence, and

"Pale Dry" Ginger Ale Essence.

SAMPLES AND FULL DIRECTIONS FOR USE FREE ON APPLICATION.

ATTRACTIVE LABELS AND SHOWCARDS SUPPLIED.

Orders for Two Gallons and upwards of Essence may be shipped under bond.

Indentors when ordering should specify HAY'S manufacture.

WILLIAM HAY, Ltd. ESSENCE DISTILLERS HULL & LONDON.

Head Office and Laboratories—HULL, Eng.

London Depot—3 YORK ST., WALWORTH, S.E.


Telegraphic Address { "Bushworth London."
"Hay, Limited, Hull."

National Telephone { London, No. 2753 Hop.
Hull, No. 488.

Code : A B C, 5th Edition.

THE "REGNAS"

Semi-Solid BRILLIANTINE

In Collapsible Tubes,
 $\frac{1}{2}$ - doz, on Showcard
as this 

There's not a quicker selling line in the whole kingdom at present than Semi-Solid Brilliantine.

It is a comparatively new line, and as such has the added benefit of novelty to recommend it.

The cards are most attractive, being printed in a warm brown tint on white, and the tubes themselves labelled the same colour on buff glazed paper.

$\frac{1}{2}$ -dozen on Card,
per dozen
3/9

Your name and address on 6 dozen FREE.



SECURED : a perfect parting.

PREVENTED : a cold in the head.

GUARANTEED : defeat of vermin.

NEVER : a damp head.

ALWAYS : a smart appearance.

RESULT : complete satisfaction.

B.P. OINTMENTS

In COLLAPSIBLE TUBES.



Handier than chippettes
or tins. Saves your
time in putting up, and
cleaning up afterwards.

Boracic, per doz.,	3/0
Carbolic „	3/2
Sulphur „	3/3
Zinc „	3/3

Sanger's

258 EUSTON ROAD, LONDON, N.W.

Good!! it's

MAKE
PRIME
HERB
BEER
AT
HOME
FROM
MASON'S
EXTRACT
OF
HERBS.



MILLIONS
OF
GLASSES
DRUNK
DAILY
BY
WORKERS
ALL
OVER
THE
EMPIRE.

A 6^D BOTTLE MAKES 8 GALLONS.

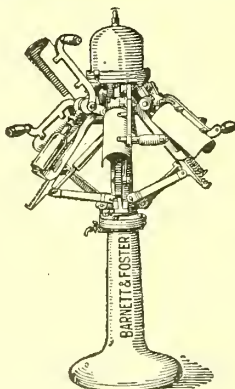
NEWBALL & MASON, NOTTINGHAM.

MASON'S

Crowning Machines

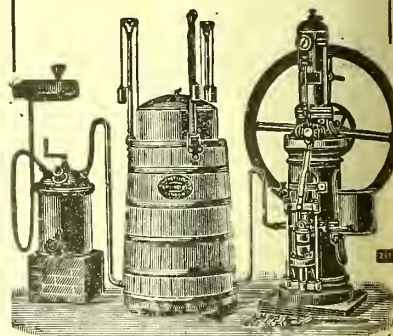
Foot, hand, and power operated crowners for all outputs. With and without Automatic Feed.

Prices from - £1 : 0 : 0

"Roundabout" Fillers

For all bottles. Fill on our back-pressure system and save 50 per cent. in working costs. Nine sizes, hand and power.

Prices from - £28 : 0 : 0

"Niagara" Soda-water Machines

Capacities from 100 to 6,000 doz. of 10-oz. bottles per day. Supplied complete with gas-work and automatic saturating cylinder. The best machine for export.

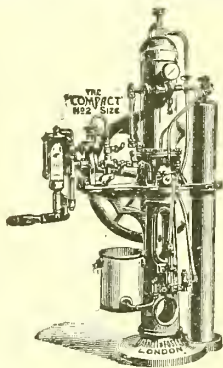
Prices from - - £30 : 0 : 0

Everything for Bottling**BARNETT & FOSTER,**

ENGINEERS,

Dept. 04, Eagle Wharf Road, LONDON, N., ENGLAND.

Latest Lists Post Free Anywhere.

"Compact" Soda-water Machines

For use with liquefied carbonic acid gas. A complete mineral water plant, comprising soda-water machine and one or two fillers on one base. Easy to instal, simple to operate. Outputs up to 1,200 doz. bottles per day.

Prices from - £33 : 0 : 0

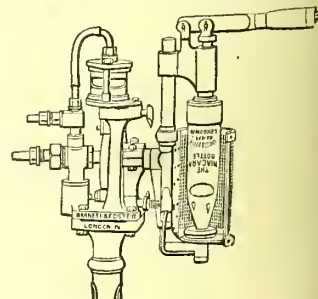
Syphon Fillers

Small and large, hand and power, machines. Can be supplied to fill on our back-pressure system.

Prices from - £6 : 6 : 0

Bottles & Syphons

We can always supply codd, crown, cork, swing or screw stoppered bottles in all sizes, also our "London Made" syphons with pure tin tops.

Turnover Fillers

Our famous "Ideal." With this machine a lad can fill and syrup 80 dozen large bottles per hour.

Price
With Syrup Pump £10 : 10 : 0
Without " £7 : 7 : 0

THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, MARCH 11, 1916.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.** Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED THE MONEY IS TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

BEST RESULTS EVERY WEEK!

← That is what advertisers in
The Chemist and Druggist
Supplement secure. Not in-
definite returns from spasmodic and inflated
circulation, but regular, steady success—the
best possible in the Drug Trade. It gives

THE PUBLICITY IT PAYS TO PAY FOR.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283.

Messrs. Orridge & Co. are consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

- 1.—LONDON, S.W.—Good-class Family and Dispensing Business, situate in select residential district; returns about £25 per week; very profitable; price £800; vendor estimates value of stock and fixtures at about £600.
- 2.—KENT (Suburban).—Middle-class Retail and Dispensing Business, no N.H.I.; returns £900; net profit £249; comfortable residence; price £50; price £275 on entry and balance, £175, by instalments; full investigation courted.
- 3.—LONDON, S.E. (Residential Suburb).—Light Retail and Dispensing; much let down, and for sale through death; returns about £1,000; a young man with energy would soon make a big business; no reasonable offer refused.
- 4.—LONDON, S.E. (Busy Locality).—Ready-money Business; steadily increasing returns, now about £20 weekly under Assistant; profits large; rent £32; vendor's own property; price £400.
- 5.—LONDON, N.E. Ready-money Retail, situate in busy main thoroughfare; returns £2,300, with net profit over £700 (proof given); price £1,300; or Partnership would be considered.
- 6.—LANS (Main Marketing Thoroughfare).—Ready-money Business, with excellent Optical connection; returns £1,370, yielding about £600 net profit; terms, valuation of stock and fixtures and sum for goodwill to be arranged equitably.
- 7.—HOME COUNTY.—Well-established Business, giving a net profit of £500 yearly; price £1,200, or valuation terms entertained.
- 8.—HANTS (In the Heart of the Country).—Good-class Retail and Dispensing Business for Disposal through death of proprietor; returns between £1,400 and £1,500, producing a net profit of over £350; capital residence; double-fronted shop, poorly fitted, but fully stocked; will accept first reasonable offer for goodwill and sell stock and fixtures at valuation.
- 9.—MIDDLESEX (Few Miles Out).—Sacrifice for immediate Sale; modern ready-money Business, situate in busy main thoroughfare; returns £2,400; scope for increase under personal attention; terms, valuation of stock and fixtures, less 10 per cent. for cash; about £850 required.
- 10.—MIDLANDS.—Retail, Dispensing, and Photographic Business; returns over £1,000, with £240 net profit; rent £35; held on lease; price £800; vendor values stock and fixtures at £750.
- 11.—BERKS.—Thoroughly sound Retail and Dispensing Business, in busy market town; position excellent; returns about £625; comfortable residence; price £500; ill-health cause of sale.
- 12.—NORTH-WEST OF ENGLAND.—Mixed Country Business, with own Proprietaries in good demand; steadily increasing returns, now about £2,850; terms, stock and fixtures by valuation and sum for goodwill to be agreed.
- 13.—GLOUCESTERSHIRE.—For immediate Disposal, an excellent Retail and Dispensing Business; returns between £1,300 and £1,350; capital business premises, very well stocked and fitted; double-fronted shop; first reasonable offer accepted; ill-health cause of sale.
- 14.—MARKET TOWN (South of London).—Price £950; Cash Retail and Dispensing Business; good position; returns about £1,100; net profit £300; handsomely fitted shop, fully stocked; roomy house; held on lease.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO. PARSON C. BAKER

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS
NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

£500 (nearly).—LANCS.—Middle-class Retail; good opening for Dentistry or Optics; vendor joining the Army; price £175; this business has done double.

£300 to £400 returns.—DERBYSHIRE.—Good working-class Retail; qualified man could largely increase; valuation about £150.

£1,100 returns.—WILTS.—General country trade, with Wines and Spirits; valuation about £400.

£1,100 returns.—MIDLANDS.—Nice Family Retail, with Optics; pleasant country market town; good house; price £725.

£550 returns.—LINCOLNSHIRE.—Light Family Retail; could be much increased by energetic man; valuation about £400.

£2,725 returns.—SURREY.—First-class Retail and Family trade, with some valuable own Preparations having a well-established sale without advertising; net profit nearly £600; price, three years' net profit or £250 goodwill and stock and fixtures at valuation; family reasons cause of sale.

Valuations conducted upon the shortest notice
at moderate fees.

BERDOE & FISH

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—HOME COUNTY (15 Miles Out).—Light Family Retail and Dispensing, with Dentistry; pleasantly situated; returns over £1,000, increasing; net profit £308; books properly kept; modern house, bathroom and large garden; well fitted and stocked; price £650; strongly recommended.

2.—SOUTHERN COUNTY (Fashionable Town).—First-class Retail and Dispensing Business; returns £1,200; profits half; plenty of scope; fine position; price £700, or £100 and valuation; personally inspected and recommended.

3.—MIDLANDS (Death Vacancy).—Good-class Retail and Agricultural, in market town; easy hours; returns £900; net profit £300; low rent; price £425, or near offer.

4.—KENT.—Unopposed good-class Country Retail, delightfully situated; returns about £1,000; books properly kept; nice house and garden; well-stocked shop; price £500; good introduction.

5.—WILTS.—Old-established General Country Retail; unopposed; returns £1,200; net profit £300; large house and garden; low rent; heavily stocked; price £700, little more than valuation.

6.—ESSEX.—Unopposed Village Retail; easily worked; returns £350; net profit £120; good house and large garden; domestic reasons sole cause of sale; price £100, less than valuation.

7.—N. DEVON.—Unopposed Light Country Retail; plenty of scope in qualified hands; net profit £152; modern house, bathroom and large garden; price £175, or offer.

8.—LONDON, S.E.—Middle-class Suburban trade; no Panel; returns £900, increasing; net profit £250; no opposition; well fitted and stocked; price £400.

9.—LONDON, N.W.—Sound Cash Retail, in busy main road; returns over £1,100; net profit £275; good house and large garden; well-stocked Pharmacy; price £475.

STOCKTAKING v. INCOME TAX.

Every chemist should make a point of reading page 135 in *C. & D. Diary*, which deals with the above matter, and then write for our special pamphlet and low terms.

Forty-five years' practical experience.

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY,

Recommended by—

BRITISH DRUG HOUSES, LTD.

MEGGESON & CO., LTD.

BARCLAY & SON, LTD.

Tel. No. Finchley 812.

All correspondence should be addressed as above.

And at 174 VICTORIA ST., S.W., Ph.C. Tel. No. Victoria 1

Valuer to Association of Manufacturing Chemists, CONTINUOUSLY increasing Cash Business; excellent position large town, Kent; returns £1,200; good house; well-fitted shop, price, small goodwill and valuation, or offer.

DEATH VACANCY.—First reasonable offer; must be sold realise estate; splendid opportunity at low cost; fine position neglected.

IN Western County; now returning £500 to £1,000; in g hands easily £1,000; well-fitted shop, private entrance, la garden, stable, etc.; stock and fixtures estimated at £500; r £45.

Tenders invited for complete Stock and Fixtures and Utens in excellent condition, of West-End Pharmacy; most liberal ter See advertisement in Supplement, page lxvii.

No Charge Whatever to Purchasers.

P. C. B. makes a speciality of examinations, and reports businesses on behalf of purchasers and arranges the trans on very moderate terms.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial a Foreign Subscribers to the fact that in cases where th require partners, agents or assistants, or wish to sell the businesses, an advertisement in this Supplement, plac in every copy of "The Chemist and Druggist," should the readiest means of helping them to attain their obje The tariff for such announcements is given under the appr appropriate headings in the Supplement. Instructions and r mittances can be sent to us direct or through the adve tisers' correspondents in this country.

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every
10 words or less beyond, prepaid.

The Advertiser may, if preferred, have repli addressed to this Office, and forwarded on payment of a additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can i no case be forwarded, the Box numbers being intended exclusivel for specific answers to particular advertisements. The Publish reserves the right to open and refuse to forward any communic tions received which he may consider contrary to this rule.

BIRMINGHAM.—Genuine Business; established by present pr prior 42 years ago; gross returns £646; price £300; owne retiring. Apply, "Radix," Southall Bros. & Barclay, Ltd., Bi mingham.

BIRMINGHAM.—Cash Retail Drug and Drysaltery Business fo Sale; established 21 years (present owner 2½ years); vend estimates stock, roughly, between £600 and £700; fittings, fix tures, and goodwill £120. 248/6, Office of this Paper.

GLOUCESTER.—For immediate Disposal, owing to illness an advanced age, old-established Business; returns over £1,300 well-fitted corner shop; good house and garden. Full particulars 351/25, Office of this Paper.

LIVERPOOL.—Business in main thoroughfare; excellent positio and scope for increase; good reasons for selling; books pro perly kept; returns £750; price £50 and valuation stock and fixtures. "C/5" (247/35), Office of this Paper.

LONDON, S.E.—Advertiser, expecting to be called up unde Group System, wishes to dispose of Branch business, now under management; Returns last 12 months £750, last 3 month rate of £884; large, handsomely-fitted Pharmacy, double-fronted splendid opening for Dentistry and Optics; good Dispensing an Proprietaries; good lease; simply valuation required, about £500 could be doubled by a smart man. "Derby," (249/9), Office of this Paper.

ONDON, W. and S.W.—Two Businesses for immediate Disposal; No. 1, suburban; lease 21 years, 16 to run; established 1821; returns 1915, £1,000; no Panel; valuation of stock and fixtures £650; price £350. No. 2, West End; rent 8s. weekly, no rates and taxes; valuation of stock and fixtures £1,000; price £75. Apply to "Rory" (156/57), Office of this paper.

URREY.—Highly desirable Village Business for Sale; returns £1,850; net profits £300; for disposal owing to ill-health of proprietor; price £1,000. Apply, "Alpha," c/o Southall Bros. & relay, Ltd., Birmingham.

TEMPTING Offer.—A well-fitted Pharmacy in Lancashire for Disposal under exceptional circumstances; a discount of 10 per cent. off valuation of stock and fixtures will be accepted; indispensable; net about £200; all details at personal interview, which is essential. 248/10, Office of this Paper.

CHEMIST'S Business for Sale, situated near Rochdale, Lancs; population 5,000; no opposition; rent £26 per annum; turnover can be materially increased. For particulars apply Parkin & Co. (Accountant to the Association of Manufacturing Chemists, 11, 2 Bixteth Street, Liverpool, or C. L. Lewis, 3 King Street, Rochdale.

COUNTRY Business for Sale; no opposition; good prices; opening for Dentistry, Photography, Optics, etc.; five-roomed house, and garden; turnover £300, can be easily increased; well-fitted shop; pleasant locality; satisfactory reasons for disposal; 28 miles from London; rent and rates £25 per annum. 250/20, Office of this Paper.

RUG Stores; mining village; no opposition; takings £670; profits £250; must sell. Apply, 245/22, Office of this Paper.

RUG Stores.—Must Sell; owner enlisted; 10 miles out; country; no opposition whatever; 2,000 inhabitants; good profits, taking £16; long lease; established 8 years; will take going concern £250 or Stock and Fittings at valuation; suit qualified; N.H.L. needed; Optics, Dentistry could be added. "Ponsor" (249/38), Office of this Paper.

EXCELLENT opportunity to obtain a really genuine business in growing town in Kent; population over 4,000; large number of troops in addition; no opposition whatever; exceptional scope for Dentistry, Optics, and Photography (not hitherto exploited); turnover £650; steadily increasing; profits extra; large Panel; price £350, part can remain. 249/34, Office of this Paper.

OR Sale, about £2,000, Business of Dental Supplies and Vitrous Oxide Gas for Dentists, doing extensive business in Midlands and North of England. 246/15, Office of this Paper.

OOD all-round Drug Business; no opposition; under present owner for 14 years; house, shop, garden, etc., in pretty and healthy district; a splendid opportunity for Insurance Dispensing or Farmer trade. Apply, "Yorkshire" (150/29), Office of this paper.

rapidly improving County town in North-West of England, on account of age and ill-health of proprietor, a handsomely fitted Pharmacy in central position, doing a high-class business, capable of great increase; Price: value of Stock and takings. "T. S." (250/19), Office of this Paper.

Chemist-Opticians.—Excellent opportunity to acquire a good Optical Business, which was formerly run as Chemist-Optician's; good residential and working-class suburb, population 4,000; well fitted throughout; £200 the lot (which includes fittings, fixtures, goodwill, and Optical stock); rent £35; good living accommodation. 248/5, Office of this Paper.

WHO will buy? Cash Retail Business, has increased from £4 5s. to present takings, now £13 a week; plenty of scope; healthy West-London suburb; no Panel. "Lines" (1/31), Office of this Paper.

TENDERS.

UY'S HOSPITAL, S.E.—Drugs and Surgical Dressings.—The House Committee invite Tenders for the supply of Drugs and Surgical Dressings for twelve months from April 1, 1916. For particulars, with form of tender, may be obtained on application at the Superintendent's Office. Tenders, duly sealed, are to be sent to the Superintendent's Office not later than March 18.

FOR SALE.

BEST offers for 1 lb. Cornelian Aniline, 1 lb. Magenta Aniline, 1 cwt. white Kieselguhr, 1 cwt. grey Kieselguhr, 28 lb. finest White Pumice Powder, 1 lb. Acetanilidum, 2 oz. Box Wood and Glass Sulphuro Chromic Catgut Ligature, unopened, 2 lb. Pot. Permang. Offord, 103 Woodgrange Road, Forest Gate.

ENTIRE Stock of Fixtures, including 300 quart, pint, and half-pint Stoppered Shop Bottles and contents (guaranteed P.E. purity), Ointment Jars, 62 Drawers and contents, Wall and Counter Cases, 6 in all, Scales, Dispensing and Counter, etc.; accept £35; seen daily after 3.30 (Thursdays excepted). Drug Store, Staines Road, Sunbury-on-Thames.

FOR Sale, about 26 lb. Indigo and 12 oz. Santonine; what offers? Apply, Jones, Cilfig, Llanelly.

ON view at 9 High Street, Marylebone, the whole of the Shop Fixtures, in excellent condition: Wall Fixtures, Wall Cases, solid mahogany panelled and trussed Counter, Counter Cases, Dispensing Counter and Mirror Screen, National Cash Register to £2, new Avery 2-lb. Balance, 9-ft. mahogany and glass Window Enclosure, polished edge, 3 glass shelving, brackets, etc., all well made, in excellent condition; together with or separate from the well-assorted stock Drugs, Chemicals, Patents, Sundries, first quality, well kept, with Utensils, Implements, Books, etc. Particulars from and offers to Parson C. Baker, 1 Mountfield Road, Church End, Finchley, N. Tel. Finchley 812.

WHAT offers? 1 oz. Veronal, 3 oz. Protargol, 1 oz. Beta-Eucaine Lactate, 2 oz. Beta-Eucaine, 1 oz. Saalphen, 5 drachms Trional, 5 drachms Dermatol, 1 1/2 oz. Migraineine, 2 oz. Aspirin (Bayer), 3 drachms Sulphonal, 2 oz. Lithii Hippurate, 2 oz. Phenolphthalein, 1 oz. Metol, 2 oz. Amidol (discoloured), 3 doz. 25's Phenacetin Tablets, 1 doz. 25's Phenacetin and Caffein, 3 100's Phenacetin. Cussons, Dorchester.

WHAT offers? 10 oz. Cocaine Hyd., about 1 1/2 lb. Hydroquinone, 3 lb. Pot. Brom., 100 oz. Quiuine. Williamson, 31 High Street, Clapham, S.W.

7 LB. Potass. Ferrocyanide, 1 lb. Acid. Hydrobrom. Conc. B.P., 56 lb. Lump Borax, 40 lb. Pot. Nit. Xtal., 1 cwt. Plumbi Acetatis, 1 cwt. Cupri Sulph. Gran., 7 lb. Potass. Permanganate, 5 lb. Potass. Oxalate Neutral, 1 lb. Cupri Chloride, 1 lb. Cupri Nitrate, 1 oz. Citarin, 2 oz. Veratria, 1 lb. Chloral Hydrate, 1 lb. Beta-Naphthol; best offers for part or whole. 247/4, Office of this Paper.

AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

AGENCY for Perfumes.—Prominent New Zealand firm desire to Represent good British or French Perfume house. Reply to "Y. R." c/o N. W. Mitchell & Sons, Ltd., 2 Dod Street, Limehouse, E.

BUSINESSES WANTED.

WANTED to purchase (at once), a Cash Chemist's Business, with a turnover of £20 per week or more, and moderate rent; it must show good average profits; Yorkshire (Leeds district) preferred, but not essential. "C. H. J." (249/27), Office of this Paper.

WANTED to purchase, Light Retail Business, Coast town preferred, Lancashire, Cheshire, or North Wales. State fullest particulars, in confidence, 249/15, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK MAR 4 1916
NATURE OF ADVT REPLIES

MANAGER	28
LADY DISPENSER	21
QUAL. MANAGER	16
UNQUAL. ASSISTANT	16
ASSISTANT	14

This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

RETAIL.

ABERGAVENNY.—Qualified, for good-class country business; suit elderly man; easy hours; outdoors. Apply, with photo, or personally preferred; if suitable, expenses paid. R. M. Williams, 51 Cross Street, Abergavenny.

ALTRINCHAM.—Assistant wanted (at once); chiefly for Dispensing; male or female; must be quick and accurate. State usual particulars, and salary required, outdoors, to R. H. Tootill, Pharmaceutical Chemist.

BEDFORD.—Unqualified Assistant wanted, for good-class business; must be ineligible for Army; Counter, Dispensing, and Window-dressing; knowledge of Photography desirable; easy hours; outdoors. Anthony & Son, 48 High Street.

BLACKPOOL.—Capable Assistant required, lady or gentleman; accustomed to medium-class business; gentleman must be ineligible for Army. State experience, salary required, and when disengaged. C. R. Gaultier, 88 Central Drive, Blackpool.

BRIGHTON.—A competent all-round Assistant required. State age, salary, experience, and send photo if possible, reasonable hours. "Permanence" (251/57), Office of this Paper.

CARDIFF.—Wanted, Senior Assistant; good Counterman and Window-dresser; used to good-class business; short hours; half-day weekly; no Sunday duty; outdoors; permanency. Full particulars, age, salary required, etc., in first letter, please, Hicks & Co., Duke Street, Cardiff.

CATERHAM.—Wanted, a qualified Assistant to Manage business, the proprietor being ill; state salary; to live in; light work. Davies, Chemist, Caterham.

CHELMSFORD.—Good Junior, ineligible for military service, wanted as Second Assistant in good-class country business; not on Panax; short hours and no Sunday duty. Please state usual particulars, references, and salary required (outdoors), E. Dunn, The Central Pharmacy, Chelmsford.

FALMOUTH.—Wanted, experienced lady Dispenser, for large business; good salary offered to capable person with good references. Wilmer & Hocking, Chemists, Falmouth.

FOLKESTONE.—Assistant wanted, qualified preferred; for high-class Dispensing business; exempt or ineligible for military service; in- or out-doors. Apply, with full particulars, salary required, to J. W. Stainer, Pharmaceutical Chemist, Folkestone.

HINDHEAD.—Assistant wanted, with good Dispensing experience; either sex; short hours; two kept. R. C. Harris, Pharmaceutical Chemist, Grayshott, Hindhead.

HULL.—Qualified Assistant; indoors; also a Junior Assistant in good-class Retail and Dispensing business; short hours. Apply, Metcalfe & Son, Pharmacists, Hull.

LANCASHIRE.—Unqualified Assistant, age about 45, for good Store business; permanency; must be a first-class Counterman, and bear an irreproachable character. "P." (251/200) Office of this Paper.

LANCASHIRE.—Wanted, elderly qualified man; must be active and reliable; short hours. For full particulars apply, "Cathor" (250/38), Office of this Paper.

LEEDS.—Wanted, a qualified woman Pharmacist with good Dispensing and General experience. Apply, 250/350, Office of this Paper.

LICHFIELD.—Unqualified Assistant for Dispensing, lady or gentleman (latter ineligible for Army). Please state usual particulars, references, and salary required, outdoors, C. L. Averil, Pharmacist, Lichfield.

LONDON.—Lady Assistant required for high-class Chemist; must be a capable Dispenser and have a knowledge of Bookkeeping. "S. S." (251/2), Office of this Paper.

LONDON, N.—Manager; qualified; outdoors or house over shop; knowledge Photography; one whole day holiday week. Long, 155 High Street, Stoke Newington, N.

LONDON, N.—Wanted, an Assistant with good all-round experience for a middle-class Retail with N.H.I. Dispensing. Apply, with full particulars of experience, names of reference when disengaged, and salary required (in- or out-doors) Barnard & Son, 309 Hackney Road, London, N.E.

LONDON, S.E.—Assistant or Manager required, qualified, ineligible for military service, with or without view to purchase, for up-to-date Cash business, increasing. Baker, 16 Church Street, Greenwich.

LONDON, S.W.—Wanted, Dispenser; Minor; hours of work approximately 8.45 to 6.30 p.m.; no Sunday duty; salary to commence 50s. per week. Write, with full particulars of past experience, to "L. J." (2606), Sells' Advertising Office, Fleet Street, E.C.

LONDON, S.W.—Required, Counter Assistant, lady; unqualified accustomed to Drugs and Perfumery; good appearance; hours approximately 8.45 to 6 p.m., 1 p.m. on Saturdays; no Sunday duty. Write, stating experience and salary required, to "L. J." (2605), Sells' Advertising Offices, Fleet Street, E.C.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

DOON, S.W.—Required. Assistant for the Front Counter; of gentlemanly appearance and address; hours approximately 6 p.m. to 1 p.m. on Saturdays; no Sunday duty. Write, full particulars of salary required. "L. J." (2604), Advertising Offices, Fleet Street, E.C.

DOON, W.—Competent Assistant required immediately; one with previous West-End experience preferred. Apply personally, or by letter, to J. Munro & Co., 273 Regent Street, W.

DOON, W.—Qualified Manager, capable, energetic business man with good middle-class Dispensing and Store experience, sole charge of slightly neglected business; permanency and prospects; outdoors; married preferred; good references. Particulars of experience and salary and commission required. 250/24. Office of this Paper.

CHESTER.—Unqualified Assistant is required for a busy Cash Retail; comfortable berth. Send all details to Pike, Fairfield Road, Droylesden.

CHESTER.—A qualified man with good references and up-to-date methods is required for Branch Management. Apply, with full details, to Griffiths & Co., Chemists, Droylesden.

CHESTER District.—Qualified Manager (home accommodation for married man); also Junior (unqualified), out-qualified for good-class Retail and Dispensing business. Send usual particulars, enclosing photo if convenient, to T. Griffiths, Chemist, Hazel Grove, Cheshire.

CHESTER District.—Wanted, qualified Manager for good residential district; also young lady with Counter experience. Full particulars and salary required to 251 33. Office of this Paper.

MARGATE.—Gentlemanly Assistant; outdoors; unqualified; active and experienced. State age, height, and salary requirements, and particulars of last two engagements, to W. M. Rosser, Bank Co., 2 Ethelbert Terrace, Margate.

PEKHAM, S.E.—Dispenser required for Friday and Saturday evenings, 7 to 9.30; remuneration 6s. for the two evenings. Applicants please state age and experience to 249/35, Office of this Paper.

SCARBOROUGH.—Wanted, unqualified Assistant. Clare & Hunt, South Street, Scarborough.

SOUTH OF ENGLAND.—Assistant required; experienced; permanency, with good salary. Timothy White Co., Ltd., Chests, Portsmouth.

SOUTH KENSINGTON.—Required, an Assistant, of good Dispensing experience; ineligible for military service. Apply to Baker & Co., 13 Gledhow Terrace, South Kensington, S.W.

STHESEA.—Cruise & Co., Ltd., Chemists, require immediately assistant; ineligible for military service; single or married (either preferred).

The Lord Derby War Hospital, Warrington.—Wanted, temporary Dispenser (female) for night duty; inclusive weekly 40s. in the case of those possessing both the Major and Minor Pharmaceutical Certificates; 30s. in the case of those possessing only the Apothecaries' Hall Certificates. Applicants, stating age, experience, qualifications, and references, sent (at once) to the Administrator.

CHESTER.—Wanted immediately, unqualified Assistant, lady or ineligible male; preferably with Optical experience. Applicants state age, experience, salary required, and send photo and references. Eldred & Inge, Pharmacists and Opticians, Chester.

YORK.—Wanted, unqualified Assistant, ineligible for the Army, or lady with Dispensing and Counter experience; half-holiday on Sunday duty. Apply, with full particulars, stating salary required, and photo if possible (to be returned), John Saville & Co., Chemists, York.

COMPETENT Assistant; ineligible; indoors; or a lady; must be accustomed to good-class Dispensing and Retail business. State salary and usual particulars, to J. Selley, Earl's Court Road, South Kensington.

QUALIFIED Assistant, ineligible, male or female, competent to take charge of a good-class Light Retail and Dispensing business. Prebble & Bone, Chislehurst, Kent.

ASSISTANT, qualified, male or female; married preferred; if the former must be ineligible. Full particulars, to H. P. Randall & Son, Ltd., 146 High Street, Southampton.

ASSISTANT, lady or gentleman, wanted. Apply at 61 Stroud Green Road, Finsbury Park, any morning before 2 o'clock.

ASSISTANT wanted, lady or gentleman; outdoors; light duties and easy hours. Particulars and salary to Bishop, Chemist, Thames Ditton, Surrey.

BRADY & MARTIN, LTD., have a vacancy for a qualified Assistant for the Dispensing and Retail Counter; indoors; application from a lady (outdoors) would be entertained. Apply by letter, Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

BRANCH Manager, unregistered, for Outer London; must be good Salesman and Window-dresser, able to increase already successful business; no Sunday, Poisons, or Dispensing; commission on sales and increased returns; opportunity for good man wanting desirable permanency. State fully age, experience, and salary expected to "Alpha" (156 56). Office of this Paper.

CHEMIST'S Assistant (unqualified), Counterman, required, with experience of good-class trade; permanency; good prospects. State age (ineligible), commencing wages required, and fullest particulars of previous appointments to Manager, Junior Army and Navy Stores, Union Street, Aldershot.

DENTAL Mechanic (Operator preferred), all-round experience, wanted at once; write fullest particulars. Apply, "Teeth," 1 Layton Avenue, Mansfield.

DISPENSER, exempt, with good experience, for evenings about 6 p.m.; sleep on premises one week in three, one Sunday in three, off duty 9 a.m.; suit student or elderly man. Apply, with usual particulars, to C. B. Allen & Sons, 20 High Road, Kilburn, N.W.

DISPENSER and Bookkeeper wanted by a firm of Medical Men in Stockport; good wages paid to an experienced man; applicants must be over military age. Apply, giving full particulars, including previous experience, wages required, etc., to "D. B.," c/o J. C. Arnfield & Sons, Ltd., Stockport.

DISPENSERS wanted, to take places of present staff called up for military duties. Full particulars of experience, age, and salary required to 153/71. Office of this Paper.

E. C. PERKES & CO., 1 Sloane Square, S.W., require experienced Assistant, lady or gentleman.

JUNIOR or Improver wanted for good-class Retail and Dispensing business. W. Pickard, 3 West Kensington Terrace, W.

JUNIOR Assistant wanted (male or female) in West-End Pharmacy; outdoors. Apply, stating usual particulars, to "M.," 156/10. Office of this Paper.

LADY, qualified, required; experienced Dispenser; N.I., a little Counter and General trade; company, Potteries. Give full particulars, 250/16. Office of this Paper.

MANAGER, qualified, wanted for high-class Departmental Store; gentlemanly man to take full charge of Drug Department; accustomed to modern trade; good Salesman, keen Buyer; short hours; no Sunday duties. Full particulars to Cater, Stoffell & Fortt, Ltd., Bath.

MESSRS. TUPHOLME & SON, 1 Coleherne Terrace, Earl's Court, S.W., require an Assistant in good-class Dispensing and Retail business; board and lodging found for single man; either full or part time; four Assistants kept. Personal interview, or by letter giving full particulars.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects.

PART-TIME Assistant required; suit student or middle-aged gentleman capable of taking charge occasionally. T. Brassy-Jones, 351 West Green Road, Harringay, N.

PELHAM C. YOUNG, Pharmacist, Hounslow, requires an indoor unqualified Assistant (non-eligible for military service), from 20 to 30 years of age preferably; Dispensing, Counter, and Photography. State fullest particulars. 'Phone. 155 Hounslow.

QUALIFIED Manager required for a well-established and progressive business; must be about 42 and have had good all-round experience; good agreement offered to the right man. "L." (251 201). Office of this Paper.

QUALIFIED Manager required for suburban business; must be gentlemanly and have good references. 250 26, Office of this Paper.

QUALIFIED or unqualified gentleman, ineligible, or experienced lady Dispenser, for high-class Dispensing business, near London. Reply, giving all particulars as to experience, qualifications, age, and salary required (outdoors), enclosing photo if possible, to Browning Moss, Pharmacist, West Byfleet.

QUALIFIED Dispenser required; hours 8.30 to about 6.15, Saturday 1.30. State particulars and salary required, "T. C. M.," Drug Department, Junior Army and Navy Stores, 15 Regent Street, London, S.W.

QUALIFIED man wanted as Manager (with view to purchase) for a working-class business situated in main thoroughfare, with a Post Office attached, near Birkenhead. For particulars apply, 250/380, Office of this Paper.

REYNOLDS & BRANSON, LTD., Leeds, require an Assistant (ineligible) for Retail and Dispensing Department. Apply, in the first instance by letter, giving full particulars, 250/35, Office of this Paper.

SAVORY & MOORE require immediately two qualified Assistants; Minor qualifications; male or female. Apply, personally or by letter, stating experience and salary required, to 143 New Bond Street, W.

UNQUALIFIED Assistant; must have been rejected by Army; comfortable permanency for capable man. State age, experience, and salary required, "U." (251/202), Office of this Paper.

UNQUALIFIED.—Experienced Counterman required; outdoors; short hours; no Sunday duties. Address, stating age, full particulars of experience, and salary expected, Secretary, Palmeira House, Hove (mark envelope "Private").

WANTED, two unqualified outdoor Assistants as Dispenser and First Counter Hand respectively; ineligible for Army; knowledge of Homœopathic Dispensing and Preparation of Compressed Tablets, Tinctures, and Pilules essential; hours, 9 till 8. Saturdays 10; no Sunday duty; applications from ladies with business training and Hall qualification would be considered. Send full particulars, with photo if possible, and copies of recent references, stating salary required, and when disengaged, Fuller, Chemist, Norwich.

WANTED immediately, Assistant for medium-class business; quick and accurate Dispenser; outdoors. Send full particulars and salary required, Highley, Chemist, Rochdale.

WANTED at once, an Assistant, unqualified, for full or part time in Retail and Dispensing business. Apply, with usual particulars, Lloyd, 267 King's Road, Chelsea, S.W.

WANTED, qualified man; age no object; easy hours; also a Dispenser for evening work. Apply, 316 Commercial Road, E.

WANTED, a competent lady Dispenser for N.I. work; one who can help at Counter preferred. State age, experience, and salary required (outdoors), 39 High Street, Uxbridge.

WANTED immediately, steady reliable man to take charge of business in West Riding of Yorkshire; arrangements could be made for sale of business if desired. Apply, stating age, experience, and salary required, to Joshua E. Hoyle, A.C.A., 14A Crossley Street, Halifax.

YOUNG Man (ineligible for Army), for Stock and Window-dressing; must be punctual and a good worker. "Saera" (251/23), Office of this Paper.

45/- weekly (outdoors).—Assistant wanted immediately for good-class Dispensing and Retail. Apply, with full particulars, to Price, Chemist, 2 Guildford Road, Woking, Surrey.

WHOLESALE.

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DRY Counter Assistant wanted; must be ineligible and have had previous Wholesale experience. Apply, with full particulars, H. Wilson, Randall & Son, Ltd., 146 High Street, Southampton.

LABORATORY Assistant; must be ineligible and have had previous experience. Apply, with full particulars, H. Wilson, Randall & Son, 146 High Street, Southampton.

LABORATORY Assistant wanted by well-known Provincial house; previous experience essential; need not be qualified; permanency and good wages. Apply, with full particulars, to "Opoponax" (154/11), Office of this Paper.

LADY Clerk, about 22, required; speed and accuracy in figuring, and previous experience of Export invoicing essential. Full particulars, and commencing salary required, 154/61, Office of this Paper.

PERFUMERY and Toilet Articles.—Experienced wanted. State age, experience, and salary required. Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

REQUIRED, by a Wholesale firm, a competent manager of Cellar. State experience and wages, 248/30, Office of this Paper.

TOILET Preparations (Wholesale).—Man or woman capable of taking entire charge of Manufacturing Department; well up in Dry Shampoos, Oils, Creams, Hair-waxes, etc. State experience, salary, age, and full particulars 153/1, Office of this Paper.

WANTED, Representatives for leading Toilet Soap and Perfumery house; must be ineligible for the Army. State salary and commission. Reply, 154/20, Office of this Paper.

WORKS Assistant Manager required by Manufacturing Chemists and Druggists in South London; must be military age or unfit for service, and experienced in Preparation and Packing of General Sundries; also capable of supervising and handling labour. Write, stating age, qualifications, and salary required, to 248/31, Office of this Paper.

WET Counter Assistant wanted; must be ineligible for the Army. Had previous Wholesale experience. Apply, with full particulars, H. Wilson, Randall & Son, Ltd., 146 High Street, Southampton.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have advertisements to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

ACTIVE; unqualified; married; 24; excellent Retail experience. "A.," 54 Stacey Road, Cardiff.

ADVERTISER seeks permanency; first-class London experience; can take entire charge; Bath district preferred. "A. E. E." (249/39), Office of this Paper.

ASSISTANT; 23; exempt from Army; Dispensing, City Photo; London radius preferred. "Medinel" (250/33), Office of this Paper.

ASSISTANT; quick and accurate Dispenser; persuasive man; 15 years' experience City and West End; fluent in English and Italian. Address, "H. M." (250/15), Office of this Paper.

ASSISTANT, married (40), unqualified, requires permanency; used to high-class Stores, etc.; disengaged. Apply, (250/14), Office of this Paper.

BRANCH Manager, or good outdoor berth; qualified; married; 39; seaside or healthy country town, Eastern counties preferred. 248/1, Office of this Paper.

BRANCH Manager, Senior; unregistered; Dispensing and Prescribing, Agricultural; ineligible. "Mac," 220 London Road, Sheffield.

CHEMIST, qualified, over military age, desires post as Manager; wide experience; highest references; purchase entered into. Williams, 17 Headfield Road, Dewsbury.

DEVON.—Qualified; 24; indoors if preferred; ineligible for the Army. Pharmacist, 19 Alma Road, Plymouth.

DISENGAGED; experienced, unqualified Senior; N.H.I. Dispensing; 29; married. "North," 2 Leadyard, Darlington.

DENGAGED, Managing Assistant; unqualified; married; tall; good references; over 20 years' experience; per-
manency; Midlands or North preferred. "H., 8 Gill Street,
Nottingham.

DISPENSER (unqualified), over military age, desires evening
work in of near Forest Gate; disengaged 6.30. Apply,
24/25, Office of this Paper.

DISPENSER, Bookkeeper, and Surgery Assistant, age 42,
desires post with Doctor or Institution; ineligible; married;
cumbrances; experienced and abstainer; permanency pre-
ferred; present post six years. W. Watts, 54 Quarry Street,
Lond.

DISPERLY; unqualified; Dispensing, Counter; active, reliable.
51/3, Office of this Paper.

ENERGIES, 6.30, Dispensing or Counter; experienced; in-
eligible. "Energy," 11 Lucerne Road, Thornton Heath.

EXPERIENCED reliable Locum; 52; indoors; day or week;
abstainer; references; unregistered. "Dispenser," 73 St.
Andrews, Uxbridge.

EXPERIENCED Dispenser and Bookkeeper; excellent refer-
ences. "Iota," 28 Park Grove, Portway, West Ham.

EXPERIENCED, qualified, 36 (ineligible), as Manager or
Buyer, with view to partnership or succession; London only;
disengaged March 13. "T." (252/6), Office of this Paper.

EXPERIENCED Dispenser; capable Salesman and Organiser;
Locum or permanency. Marsden, 54 Romilly Road, Finsbury
Pa. N.

ESPITALS and Infirmaries.—As experienced Dispenser; in-
eligible; 6 years Medical Assistant and Surgery Attendant;
quick, neat. "G.," 10 Grange Road, Plaistow.

JUNIOR seeks engagement, London preferred; ineligible for
Army; served 4 years' apprenticeship; age 19½ years; live in
London, but not essential. Please give full particulars in first
letter to H. F. Rose, 33 Chetwynd Road, Southsea, Hants.

LADY Dispenser, Hall qualification, desires post with Doctor,
Chemist, or Institution; good testimonials. 248/12, Office
of this Paper.

LADY Assistant, with experience in Dispensing and Counter
work, requires post in a good-class Pharmacy; excellent
reference; Birmingham or district. State salary and hours of
business, 251/36, Office of this Paper.

LOCUM; 16th season; ineligible; elderly. Biton, West Heath,
Congleton, Cheshire.

MP.S.; 33; ineligible; excellent references; good Dispen-
ser; capable and reliable Manager. "Salesman"
(2/16), Office of this Paper.

MANAGER, qualified, 35, married, good references, requires
post at seaside town, South Coast. Tunnicliff, 3 Anerley
Road, Upper Norwood, S.E.

MANAGER or Senior; 44; married; accurate Dispenser. Pre-
scriber; Photography; good Salesman; life experience Stores
Private; permanency; thoroughly competent; good refer-
ences; abstainer; Devon district preferred; unregistered. "Rhee,"
Rugby Villa, William Street, Bognor.

MANAGER desires situation; qualified; abstainer; over military
age; seaside preferred. Write, "Chemist," 116 Spring
field, Bury.

MANAGER or Locum; elderly; qualified; active. "F. B."
(250/37), Office of this Paper.

MANAGER; 27; married; qualified; Scotsman; 12 years' Scotch
and English experience; Dispensing, Photography; excellent
references; South Midlands or North London suburb preferred.
24/40, Office of this Paper.

MANAGER; 48; good all-round experience; energetic; reliable;
work up Branch or ultimate easy succession; terms; un-
married; disengaged. Address, "Reliable," 1 Alexandra
Road, Clapham, S.W.

MANAGERSHIP or responsible position; qualified; middle-age;
permanency desired; good experience and references; Yorks
preferred; disengaged in few days. 248/3, Office of this Paper.

PART-TIME; experienced; evenings, one whole day, or arrange-
ment; references. 250/11, Office of this Paper.

PHARMACIST (ineligible), excellent experience in all branches,
requires Managership, in or near Manchester. 249/31,
Office of this Paper.

QUALIFIED; Store, Retail experience; 5 years as Manager.
33 Wake Road, Sheffield.

QUALIFIED, over military age, disengaged evenings after
6 p.m.; Liverpool district only. "T. O.," 15 Abergele Road,
Stanley, Liverpool.

QUALIFIED Manager; active man; elderly; duration of war or
permanency; good and reliable references. 248/24, Office
of this Paper.

QUALIFIED; 33; married; good experience; capable; willing;
satisfactory references; thorough Dental knowledge, also
Optics; as Manager or Senior. 124 Manor Park, Lee, S.E.

QUALIFIED; 41; Liverpool or near; Manager or otherwise;
good experience; moderate salary. 250/23, Office of this
Paper.

QUALIFIED; 15 years' Management; age exemption; disen-
gaged end of March; only first-class offers considered. Address,
249/53, Office of this Paper.

QUALIFIED; Manager or Branch; long experience; Prescriber
and Extractor. 250/18, Office of this Paper.

QUALIFIED; 29; 5 ft. 6 in.; ineligible; good experience;
reliable; good Dispenser; desires permanency; salary to equal
£4 per week. 250/1, Office of this Paper.

QUALIFIED Dispenser, disengaged every evening after 7. State
salary offered, 251/40, Office of this Paper.

RE LIABLE Assistant; married; unqualified; 28; excellent
Counter experience; good references; S.W. preferred. 252/10,
Office of this Paper.

THANET Preferred.—Lady seeks employment Chemist shop;
Counter, Stock, and help at Dispensing Counter. "X. Y. X."
(248/16), Office of this Paper.

YOUNG lady (28), with good knowledge of Dispensing and
Doctor's Bookkeeping, desires evening employment; attend-
ing College of Pharmacy during day. "R. B. W.," 87 Vernon
Avenue, Raynes Park, Wimbledon.

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no case be forwarded, the Box numbers being intended exclusively
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tions received which he may consider contrary to this rule.

BELGIAN (21), ineligible, 12 months in London Retail Phar-
macy, seeks new berth in Analytical or Pharmaceutical
Laboratory; fair knowledge of Chemistry. 251/30, Office of this
Paper.

BIRMINGHAM and Midlands.—Representative, 14 years' sound
connection leading buyers, open for an additional line; com-
mission; share expenses; Society guarantee. 248/29, Office of
this Paper.

BRISTOL and District.—Resident Traveller, over military age,
covering this ground, is open to work good additional line
in Bristol and adjoining counties, on a commission basis. Replies
247/5, Office of this Paper.

CHEMIST, Works Manager, or Buyer; Pharmacist, age 42;
expert Analyst, with thorough knowledge of Toilet, Pharma-
ceutical Manufacturing; also Disinfectants, Sheep Dips, Horti-
cultural and Agri-cultural Chemicals, Manures, etc.; accustomed to deal
with workpeople. "F. I. C." (245/23), Office of this Paper.

F. S. MARSDEN; 12 years Messrs. Warrick Bros.; ground,
F. N. West, Midlands, West, N. and S. Wales; ineligible military
service. 22 Cotton Lane, Moseley, Birmingham.

PERFUMER (Manufacturing), ineligible, many years' experi-
ence, wants situation; Specialities, Face-cream, Shaving-
cream, Hair-dyes, etc. "B. 13" (250/3), Office of this Paper.

PHARMACIST, qualified, ineligible, experienced business man. wishes to take up Agency (preferably for Proprietary Article) to travel West of England. Full particulars on application, 250/40, Office of this Paper.

REPRESENTATIVE for London district in Drugs, Patent Medicines, etc., also Optical and Dental, now at liberty: salary and commission; references exchanged. Apply, "Veloxy," 2 Ordnance Buildings, Enfield.

REPRESENTATIVE calling on Wholesale Druggists and Fancy Goods houses for old-established London firm, and covering England and Scotland, desires additional line on commission and part expenses basis; excellent references. 156/67, Office of this Paper.

THOROUGHLY reliable lady seeks position of trust in either Wholesale or Retail house; knowledge of Surgical Instruments and well able to interview Medical Practitioners in Sales department; some knowledge of Drugs and Prescription work; moderate salary accepted in any capacity where experience can be further gained. "Reliable," c/o Chemist, 10 Terrace Road, Upton Manor, E.

TRAVELLER requires berth; London and Provincial experience; moderate terms, or would take over ground for one called up for duration of war. "W. R. S." (248/17), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green. Shares for Sale (free of commission, subject).—100 Mellins' Food 6 per cent. Preference, 14s. 3d.; 135 Parke's Drug Ordinary, 6s. 10½d.; 125 6 per cent. Preference, 14s. 6d.; 50 British Moss Litter 6 per cent. Preference, 15s. 6d.; 300 Lewis & Burrows 6 per cent. Preference, 11s. 10½d.; 150 Oil Cake Ordinary, 21s. 9d. c.d.; 190 Van den Bergh "B" 6 per cent. Preference, 20s.; 200 Salt Union Ordinary, 17s. 3d. c.d., 1s. a share; 50 Preference, 88s. c.d., 7 per cent., and 2s. a share. Wanted (subject).—120 Allenbury "C" Preference, 20s.; 100 Wright Layman Preference, 19s. 6d. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

CHEMIST'S good second-hand 12-ft. Mahogany Drug Fitting, 6-ft. Mahogany Dispensing Screen and Counter, 4-ft. Mahogany Wall-case; 10-ft. Glass-fronted Counter; Nest of Counter Drawers; Perfumery Case and Desk; 4-ft. Bent Glass Counter Case; the lot £45; bargain; cheapest house for Window Enclosures, Mirrors, Glass Shelves, modern Shop Fronts, Improvements, etc.; plans prepared; estimates free. Mills, Shopfront, Shopfitting, and Glass Facia Works, 165-165 Old Street, London, E.C. Phone London Wall 550.

SECOND-HAND Chemists' Fittings.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 269 Old Street, London, E.C.

SHOPFITTINGS.—Several second-hand all-glass Counters, removed from British Industries Exhibition, fitted with Glass Shelves, at half original prices; Plate-glass fronted Counters, Dispensing-screens, Wall Showcases with piano fronts; all ready for use. Write requirements to PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiving; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.

8/6 3 Years 4 Columns	Jay Mack's Ledger A Lancashire Chemist says: "Some of my friends swear by your Ledger, others swear at it; but I'll keep the 8/6 set." On appro. on receipt of cheque. Booking fee if returned. MACK - IVOR, Hightown P.O., Crewe.	10/6 4 Years 5 Columns
AYRTONS, BLEASDALES, EVANS, RAIMES (Edinb.).		

WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to war, and which the inquirers have failed to obtain through ordinary business channels.

TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise at a quantity and price to

THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C. 4.
 Hydroquinone (251/27) Theocin sodium acet. 1 oz. (247/40)
 Metol (251/27) 1 oz. (247/40)
 Oxalic acid, 1 cwt. (251/27)

FOR DISPOSAL.

Sole-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we will place them in touch with sellers:—

Eucalyptus oil (Tasmanian), Sod. salicylas. phys. p cases, ea. 2 28-lb. tins 7 lb. (251/28)
 (251/28) Sulphonal (Bayer), ½ (248/7)
 Pot. bromid. (241/6) Sulphonal powder and (251/28) lets (241/6)
 Pot. ferrocyanide (241/6) White pearlash (241/6)

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One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6d.

FOR DISPOSAL.

DRUGS AND CHEMICALS.

3 oz. guaiac. carb. tabs., gr. v., 16s. Hinkley, 155 Wall Village, Cheshire.
 WHAT offers? 3 drms. atropin. sulph., ¼ oz. atropin. Baily, Chemist, Margate.
 WILL give 25 oz. quin. sulph. or 7 lb. bismuth. carb. for 1 pot. permang. Adams, Oxford Street, Salford.
 WHAT offers? 36 1s. radium bath-salt, 9 1-gallon H Premier belt composition. Lees' Drug Stores, Stalybridge.
 12 gals. cattle cod-liver oil, 1 cwt. ammon. chlor. kibbled, 4 oz. bottle ammon. brom., 7 25's tabloid phenacetin. 5 25's tabloid phenacetin gr. v., 1 lb. potassa caustica sell cheap; offers invited; exchange pot. brom., acid. crum. tartar., shop-rounds. Wilkins, Pharmacist, Congl.

WANTED.

4 and 8 oz. white-flint champagnes. State price, Walker, Che Duke Bar, Burnley.
 PEREGRIN water. State quantity and price, Newsholme, 27 High Street, Sheffield.
 WANTED, 500 gross 2-dram pill-boxes. State price for "Chemist," 14 Brunswick Square, Bristol.
 BOTTLES.—Wanted at once, 50 gross 1½-oz. limes or sin Offers to "Essence" (155/37), Office of this Paper.
 TINS, vaseline, ointments, salves, plain or labelled; any wanted for cash. Levers, 56 Chapel Street, Manchester.
 OPTICAL books, Minor, Major, Chemists' books; send prepaid valuation; cash offers per return. Gower, Bookseller, 41 taire Road, Clapham, S.W.

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SODIUM.**

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